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ESTABLISHED 1844

CATALOGUE OF

VETERINARY SURGICAL INSTRUMENTS

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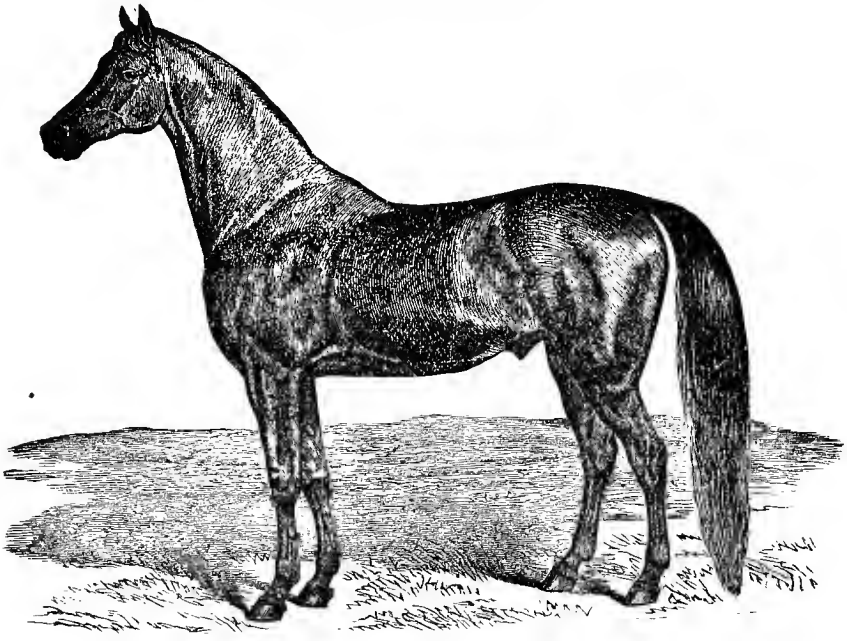


SHARP & SMITH

CHICAGO, - - - ILLINOIS

73 RANDOLPH STREET

THE OLDEST VETERINARY SURGICAL INSTRUMENT HOUSE IN THE WEST

A 140087

TO THE VETERINARY PROFESSION.

GENTLEMEN:—The past few years have developed such a marked advance in the science of Veterinary Surgery that it has led us to a proper consideration of the importance of manufacturing and designing new Instruments, and our hitherto extensive facilities for manufacturing have been increased about one-half All instruments are made as before, under the personal supervision of Mr. J. P. Sharp.

This edition of our Catalogue contains many newly devised Instruments, and is more complete than any one of its kind that we have yet seen, although, at the present rate of improvement, we hope to supersede this edition each following year.

In this list we have figured out all of the discounts and made "Net" prices, believing it to be the better plan, as discounts are confusing, and our plan will enable Doctors to tell just what a thing will cost, and from the cost whether or not it is wanted.

All of our instruments are warranted, and any proving unsatisfactory or imperfect will be cheerfully exchanged by us. Our Stock is by far the largest and best assorted in this country, not excepting Eastern houses. We are the manufacturers of the celebrated **Sayre & Drake's Dental Instruments and Cases,** and have for our patrons the greater part of the Faculty of all Veterinary Colleges in the United States and Canada.

We solicit correspondence concerning new Instruments, and we will assist you in the matter of bringing new Tools before the profession by making Drawings, Wood Cuts, etc., of same, and sending out printed Circulars.

For the convenience of patrons desiring articles not kept in stock by us, we will purchase and supply at cost price to us.

Hoping to be further favored with your valued correspondence and orders, we remain,

Respectfully yours,

SHARP & SMITH.

SUGGESTIONS TO PATRONS.

THE name of your Town, County and State, and your own name, should be plainly written.

Articles sent by mail are sent at the risk of the purchaser.

When instruments are sent for repair, the address of the person sending them should be plainly marked on outside of package.

Instruments ordered by parties unknown to us, will be sent by express, C. O. D., including the charges for returning the money; and a remittance sufficient to cover express charges should accompany the order.

Sharp or pointed Instruments, and articles wholly or partly of glass, cannot be sent by mail, excepting in tin boxes.

All parcels sent by mail, on which letter postage has not been paid, are opened and examined at the Chicago office, and if writing is found inclosed, letter rate is charged on the parcel, which sometimes amounts to far more than express rates. This penalty postage we charge to the person sending the parcel.

We pay great attention to having goods carefully packed, so that they can be transported to any part of the world safely. Goods so packed cease to be our property when placed in the hands of the carrier. Therefore, for all delays or damages, the customer must look to the express company, who alone are legally responsible to the owner for their prompt and safe delivery.

All articles of our manufacture and those bearing our name, we warrant; and any article sold by us not answering our description, or not according to order, will be taken back cheerfully; and any errors on our part will be promptly rectified.

Reference to former correspondence should be avoided as much as possible. Do not depend upon our remembering former orders, but designate the article wanted, either by name or description; and when measures are required, send new measures. Attention to this suggestion will frequently save time, and avoid delay.

Very respectfully,

SHARP & SMITH.

NOTICE.

Please do not cut or mutilate this Book. In ordering, always state Number of Figure and Page of Catalogue.

SETS OF DENTAL INSTRUMENTS.

Fig. 200—Sayre & Drake's Set of Dental Instruments—Open.

Fig. 200—Sayre & Drake's Dental Case.

CONTENTS.

1 Incisor Cutter.
1 Open Cutter.
1 Closed Cutter.
1 Extractor.
1 Pair Handles.
1 Straight Nipper.
1 Small Molar Forceps, 13 in.
1 Wolftooth Forceps.
1 Jointed Rasp (House's).
1 Trephine.
1 Hamilton's Sequestrum Forceps.
1 Metacarpal Saw.
1 Snap Artery Forceps.
1 Hook.
1 Scalpel.
1 Drill.
1 Screwdriver.
1 Brush.
1 Separating Forceps.
1 Bone Scoop.
1 Dissecting Forceps.
1 Knee Bent Scissors.

All in Russet leather case, plush lined..... $91.00 net.

See opposite page showing above case closed

SETS OF DENTAL INSTRUMENTS.

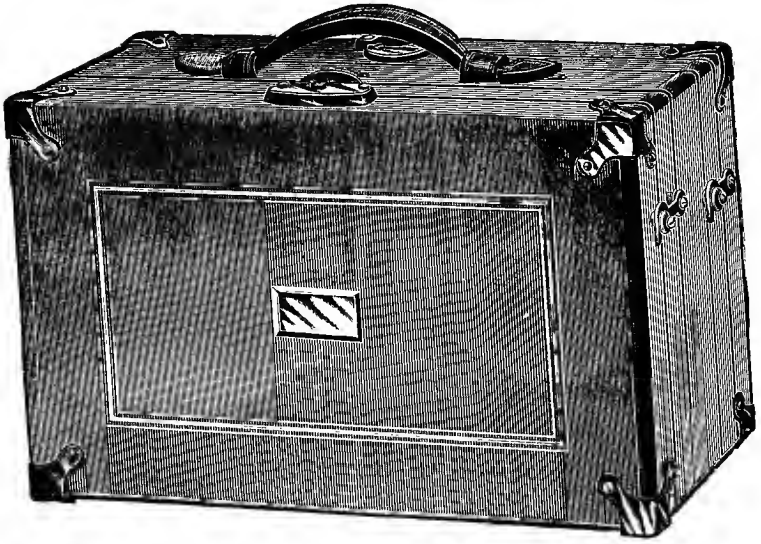


Fig. 200—Sayre & Drake's Dental Case—Closed.

Fig. 201—Sharp & Smith's Dental Case No. 1.

CONTENTS.

1 S. & S. Incisor Cutter.
1 Open Cutter.
1 Closed Cutter.
1 Extractor.
1 Pair Handles.
1 Straight Nipper.
1 Small Molar Forceps, 13 inch.
1 Bayonet Wolftooth Forceps.
1 Jointed Rasp.
1 Trephine.
1 Hamilton's Sequestrum Forceps.
1 Metacarpal Saw.
1 Snap Artery Forceps.
1 Hook.
1 Dissecting Forceps.
1 Drill.
1 Screw Driver.
1 Brush.
1 Separating Forceps.
1 Bone Scoop.
1 Scalpel.
1 Knee Bent Scissors.

All in Russet leather case, plush lined.....$80.00 net.

SETS OF DENTAL INSTRUMENTS.

Fig. 202—Sharp & Smith's Dental Case, No. 2.

1 Open Cutter.
1 Extractor.
1 Small Molar Forceps, 13 in.
1 Trephine.
1 Saw.
1 Separating Forceps.
1 Bone Forceps.
1 10 in. File.
1 Brush.
1 Closed Cutter.
1 Pair Handles.
1 Bayonet Wolftooth Forceps.
1 Sequestrum Forceps.
1 Hook.
1 Bone Scoop.
1 Straight Nipper.
1 Jointed Float.
1 Screwdriver.

All in Russet leather case, plush lined.....$70.00 net.

Fig. 203—Sharp & Smith's Dental Case, No. 3.

1 Open Cutter.
1 Closed Cutter.
1 Extractor.
1 Pair Handles.
1 Small Molar Forceps, 13 in.
1 S. & S. Incisor Cutter.
1 Straight Nipper.
1 Jointed Float.
1 10-inch File.
1 Wolftooth Forceps, 9 in.

In Two-fold Russet leather plush lined case.....$60.00 net.

All of the Instruments contained in these sets are of the latest patterns and approved by our leading Veterinarians.

We put up numerous other cases which we have no room to describe.

On the following pages we describe and quote separate dental instruments from which can be selected any number and put in cases to suit.

DENTAL INSTRUMENTS.

Fig. 204.

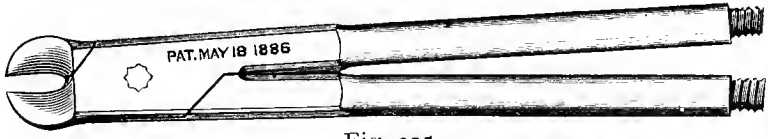


Fig. 205.

Side View of Figs. 204 and 205.

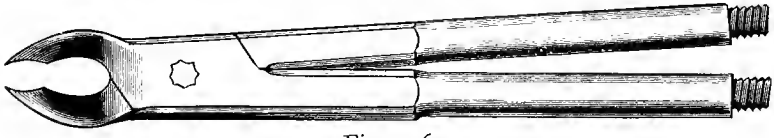


Fig. 206.

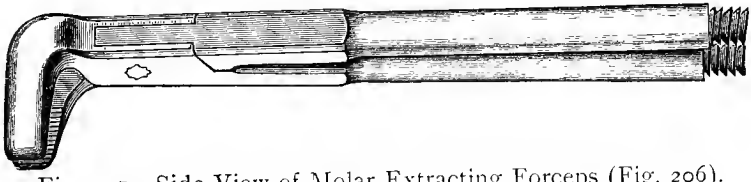


Fig. 207—Side View of Molar Extracting Forceps (Fig. 206).

		Net Prices.
Fig. 204	Sayre & Drake's Closed Molar Cutter	$12 50
" 205	" " Open " "	12 50
" 206	Molar Extracting Forceps	8 00
" 207	" " "	8 00

DENTAL INSTRUMENTS.

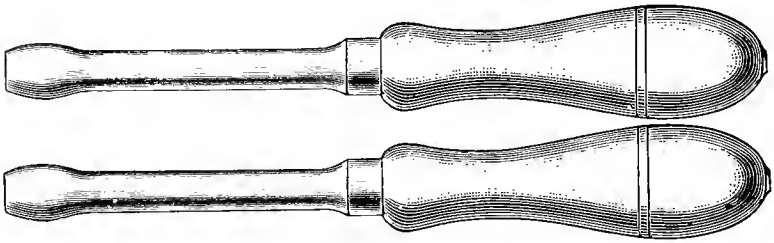


Fig. 208.

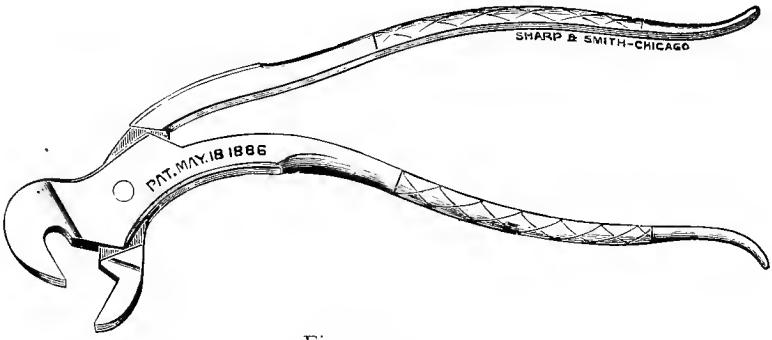


Fig. 209.

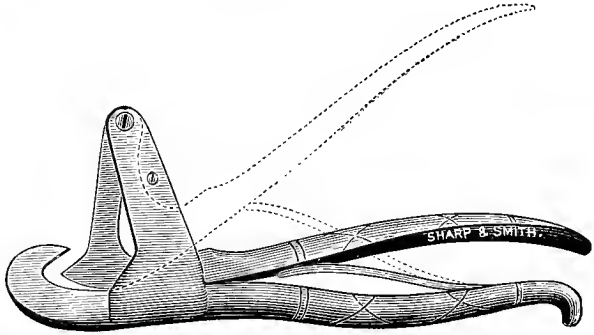


Fig. 210.

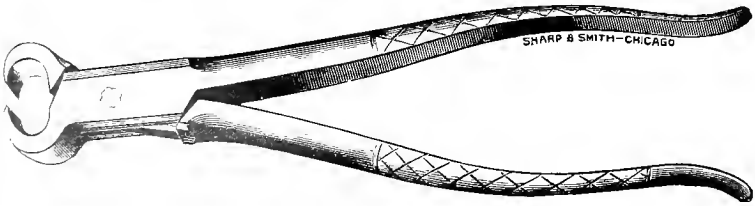


Fig. 211.

DENTAL INSTRUMENTS.

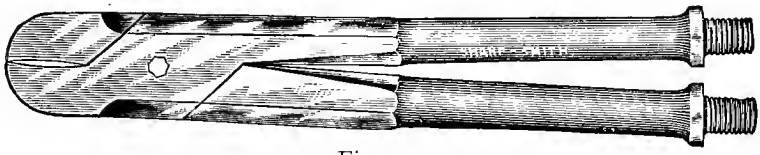


Fig. 212.

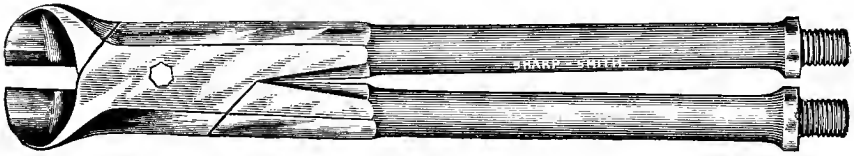


Fig. 213.

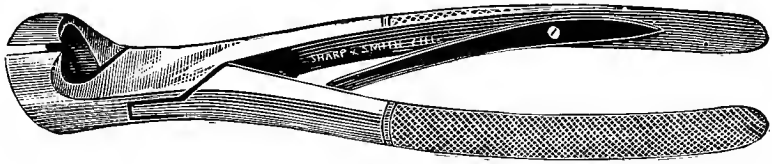


Fig. 214.

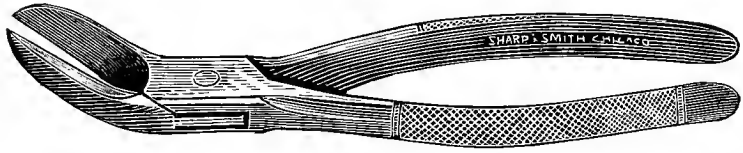


Fig. 215.

		Net Prices.
Fig. 208	Handles for Cutters and Extractors, per pair	$ 5 00
" 209	Sayre & Drake's Patent Incisor Cutter	15 00
" 210	Sharp & Smith's Incisor Cutter	10 00
" 211	Straight Incisor Cutter	5 00
" 212	Sharp & Smith's Closed Molar Cutter	8 00
" 213	" " Open " "	8 00
Sharp & Smith's Set, consisting of the Open and Closed Molar Cutters (Figs. 212 and 213), Extractor (Fig. 206), Handles (Fig. 208)		25 00
Fig. 214	House's Cutting Forceps, 12 inches	5 25
" 215	Tooth " " 16 "	7 50
" 215	" " " 14 "	6 50
" 215	" " " 12 "	5 25

DENTAL INSTRUMENTS.

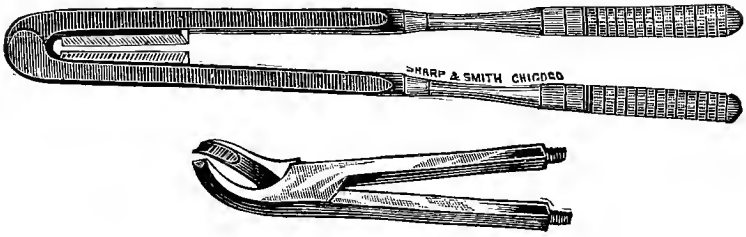
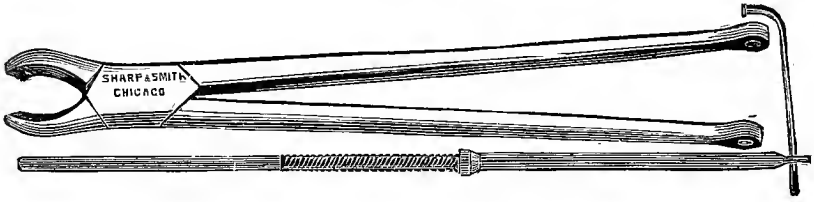


Fig. 216.



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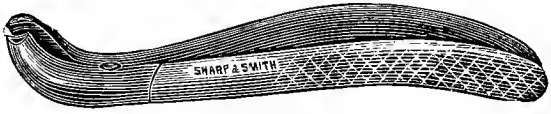
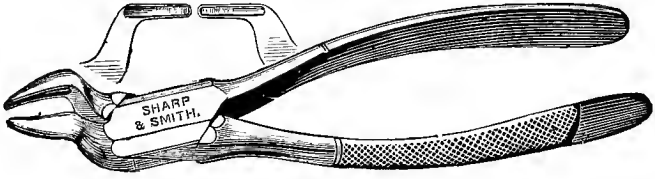


Fig. 218.



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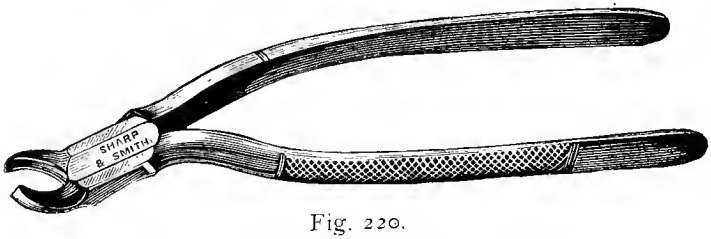
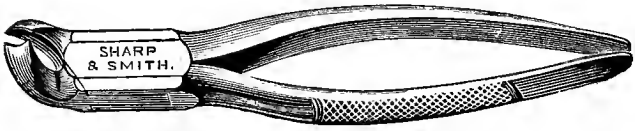


Fig. 220.

Prices in this Catalogue are *strictly net.*

DENTAL INSTRUMENTS.



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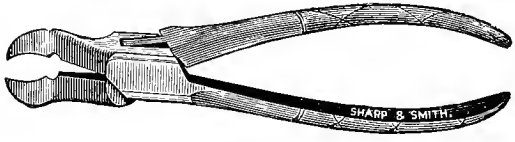


Fig. 222.

Fig. 223.

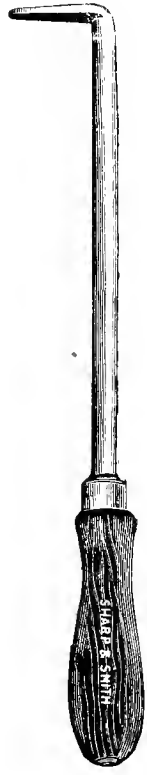
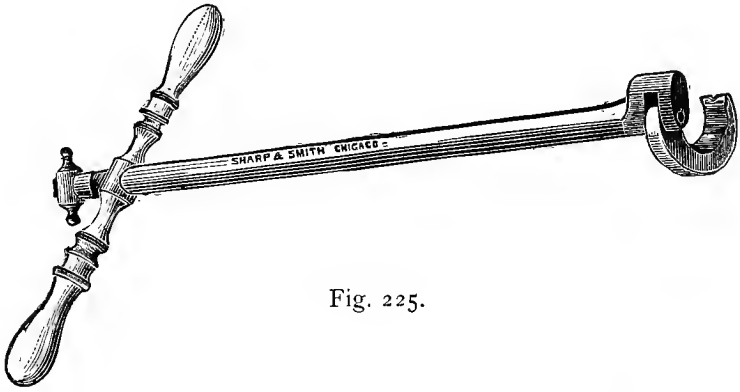


Fig. 224.

		Net Prices.
Fig. 216	House's Combined Cutting and Extracting Forceps	$21 00
" 217	Going's Extractor	15 00
" 218	Molar Extracting Forceps, 24 inch	10 50
" 218	" " " 20 "	9 00
" 218	" " " 16 "	4 50
" 219	Bayonet Wolftooth " N. P., 9 inch	3 00
" 219	" " " Plain, 9 "	2 60
" 219	" " " N. P., 13 "	3 00
" 219	" " " Plain, 13 "	2 60
	Straight " " "	2 60
" 220	Curved " " N. P., 9 "	3 00
" 220	" " " Plain, 9 "	2 60
" 221	Small Molar Splinter " N. P., 13 "	3 00
" 221	" " " " Plain, 13 "	2 60
" 222	Separating Forceps for Wolfteeth	2 25
" 223	Bone Forceps, Plain	1 85
" 223	" " with Spring	2 25
" 224	Sounding Hook	1 75

DENTAL INSTRUMENTS.



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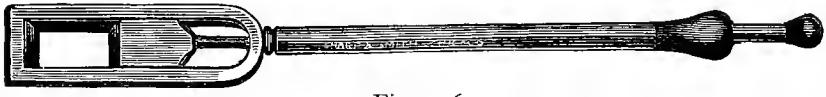


Fig. 226.

Fig. 227.

Fig. 228.

Fig. 229.

DENTAL INSTRUMENTS.

Fig. 230.

Fig. 231.

Fig. 232.

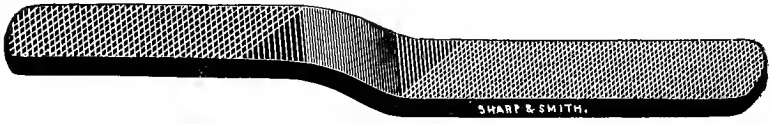


Fig. 233.

Fig. 234.

		Net Prices.
Fig. 225	Turnkey for Extracting Teeth	$ 6 00
" 226	Molar Chisel (Going's)	12 00
" 227	" " French	10 00
" 228	House's Reversible Float, N. P., Jointed	2 50
" 229	" " " N. P., Plain	2 00
" 230	Plain Float	1 50
" 231	Angular Reversible Float	2 00
" 232	McPherson's File	1 25
" 233	Palmer's File	1 00
" 234	Plain Double File, 10 inch	75
	Extra Blades for House's Float ..... each,	35

DENTAL INSTRUMENTS.

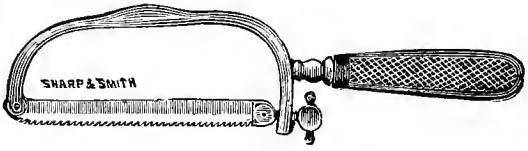


Fig. 235.

Fig. 236.

Fig. 237.

Fig. 239.

Fig. 238.

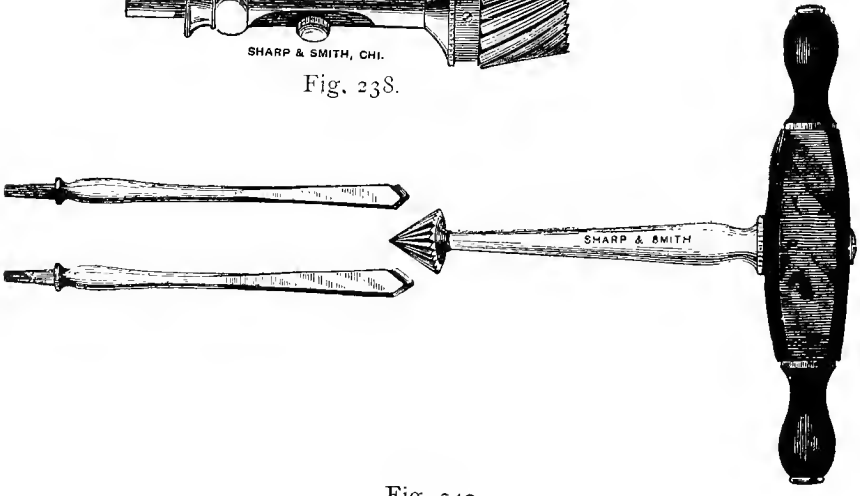


Fig. 240.

DENTAL INSTRUMENTS.

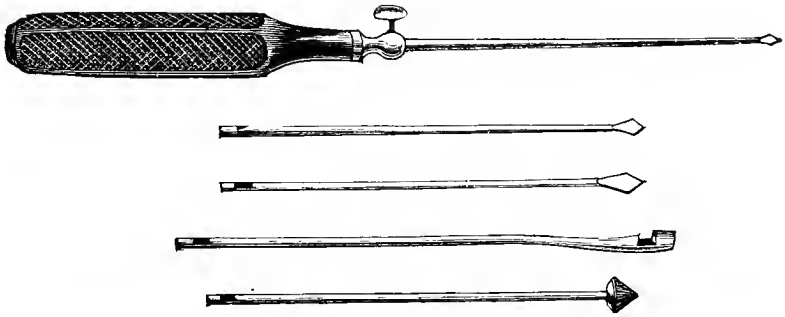


Fig. 241.

Fig. 242.

Fig. 243.

Fig. 244.

		Net Prices.
Fig. 235	Bow Tooth Saw, 2 blades	$ 4 50
" 236	Lifting Back Tooth Saw	1 50
" 237	Separating Saw	1 00
" 238	Conical Trephine and Handle	3 00
" 239	Elevator and Raspatory	1 00
" 240	Buck's Set Drills	3 75
" 241	Brainerd's Set Drills	2 65
" 242	Bone Scraper	1 85
" 243	Simon's Pus Scoop	1 75
" 244	Gum Lancet, Plain	75
" 244	" " Spring Back	1 50
" 244	" " Slide Catch	1 50

MOUTH SPECULA.

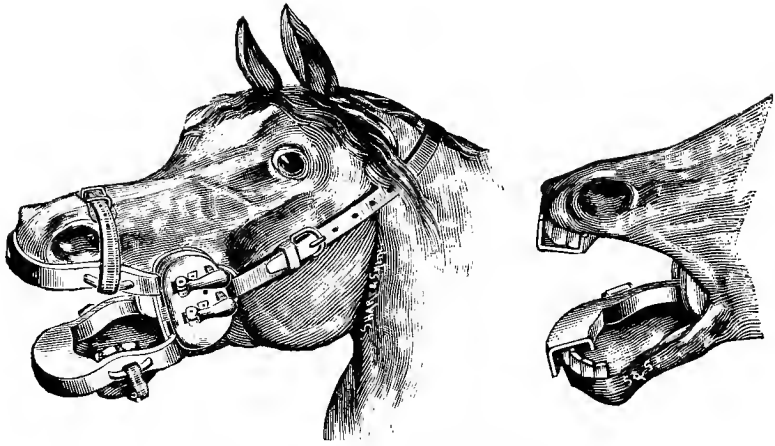


Fig. 300—Barnes Mouth Speculum.

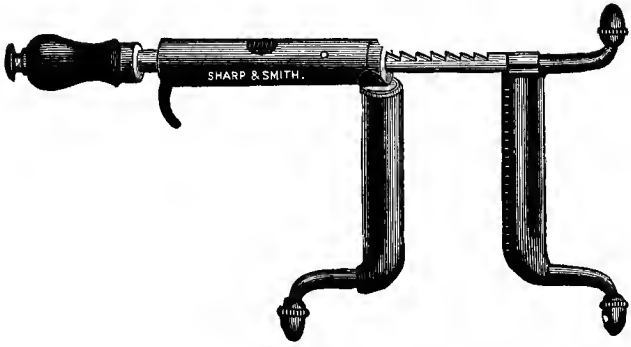
We take pleasure in introducing this Speculum, which possesses the advantage over all others of having the weight come on the front teeth instead of the soft tissue of the gums, thereby causing no laceration or pain. The teeth fit into semi-lunar cups so made that they will fit any mouth, and when placed in the mouth like a bit, can be opened instantly, and is held open by a pair of steel dogs, which fill the space made by the jaws opening. Thus held open there is no possibility of the instrument closing, and operations on and examinations of the teeth can be made with the greatest facility—the animal receiving no injury from the instrument will not fight it or make any resistance whatever.

Price ..... $10.00 net.

SHARP & SMITH, Sole Agents, Chicago.

We make patterns for the profession for new instruments free of charge.

MOUTH SPECULA.



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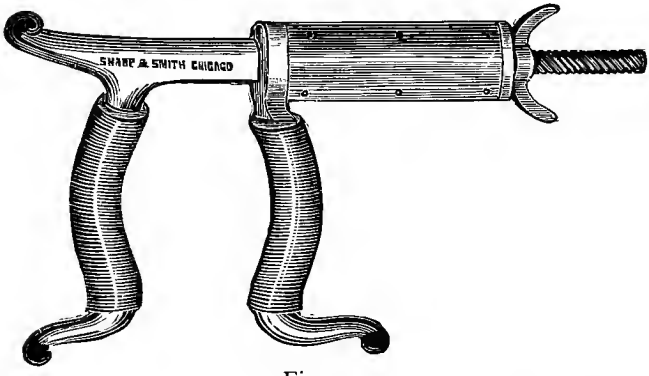


Fig. 302.

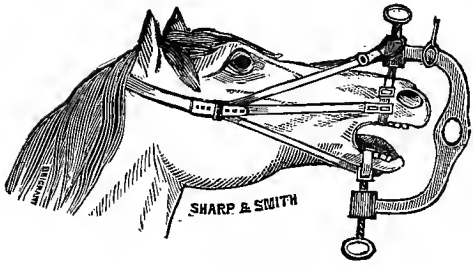


Fig. 303.

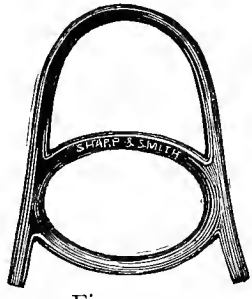


Fig 304.

For Prices, see page 17.

MOUTH SPECULA.

Crannell's Mouth Speculum.

PATENTED APRIL 23, 1889.

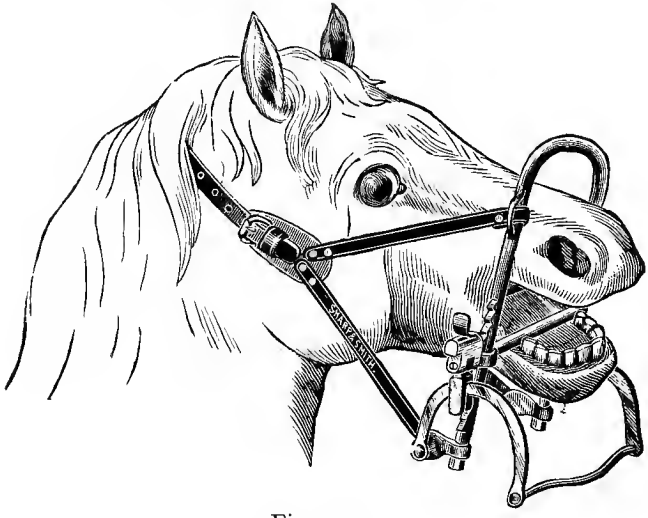


Fig. 305.

This Speculum will be found by all Veterinary Surgeons to be one of the most humane as well as the most convenient inventions in recent years.

It is durable and greatly superior to all others now in use. Its advantages over all other instruments of this character are:

I. That it can be easily placed in the animal's mouth, just as a bridle, and as convenient as a bridle bit. The animal's mouth can be easily and quickly opened by simply pulling on the lever to any extent required for operation. By a slight pressure on the spring it immediately releases the pressure, and the animal's mouth is closed instantly.

II. There are no screws requiring time and annoyance to the operator, and there is none of the prying or dangerous processes as required by speculums now in use to open the animal's mouth.

III. It can be opened with ease and without the slightest injury to the animal.

IV The horse's mouth can be opened or closed in an instant.

V. When the animal's mouth is opened the instrument retains its place, and the operation can be performed without injury or annoyance to the operator.

VI. It will be found most convenient for the purposes of drenching, dentistry, and all surgical operations necessary to be performed in the mouth or throat.

The cheapness of the instrument places it within reach of all Veterinary Surgeons, and it is so durable that it will last a lifetime.

Veterinary science has reached that stage where skillful surgeons can't longer afford to be without an instrument of such great convenience and utility. Price.....$10.00 net.

MOUTH SPECULA.

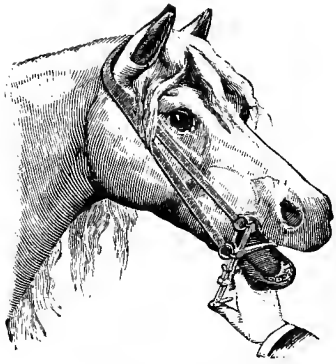


Fig. 306—Applied.

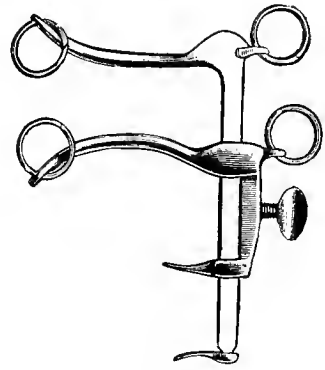


Fig. 306.

		Net Prices
Fig. 300	Barnes' Mouth Speculum	$10 00
" 301	Varnell's Improved Mouth Speculum	7 50
" 302	" "	6 75
" 303	Simon's Mouth Speculum	15 00
" 304	Balling Iron, Nickel Plated, finely finished	1 50
" 304	" " Plain	75
" 305	Crannell's Mouth Speculum	10 00
" 306	Greene's Extension Bit	4 50

All goods bearing our name are warranted.

Goods imperfect or otherwise unsatisfactory will be cheerfully exchanged by us.

Please note that prices are STRICTLY NET.

POCKET INSTRUMENT CASES.

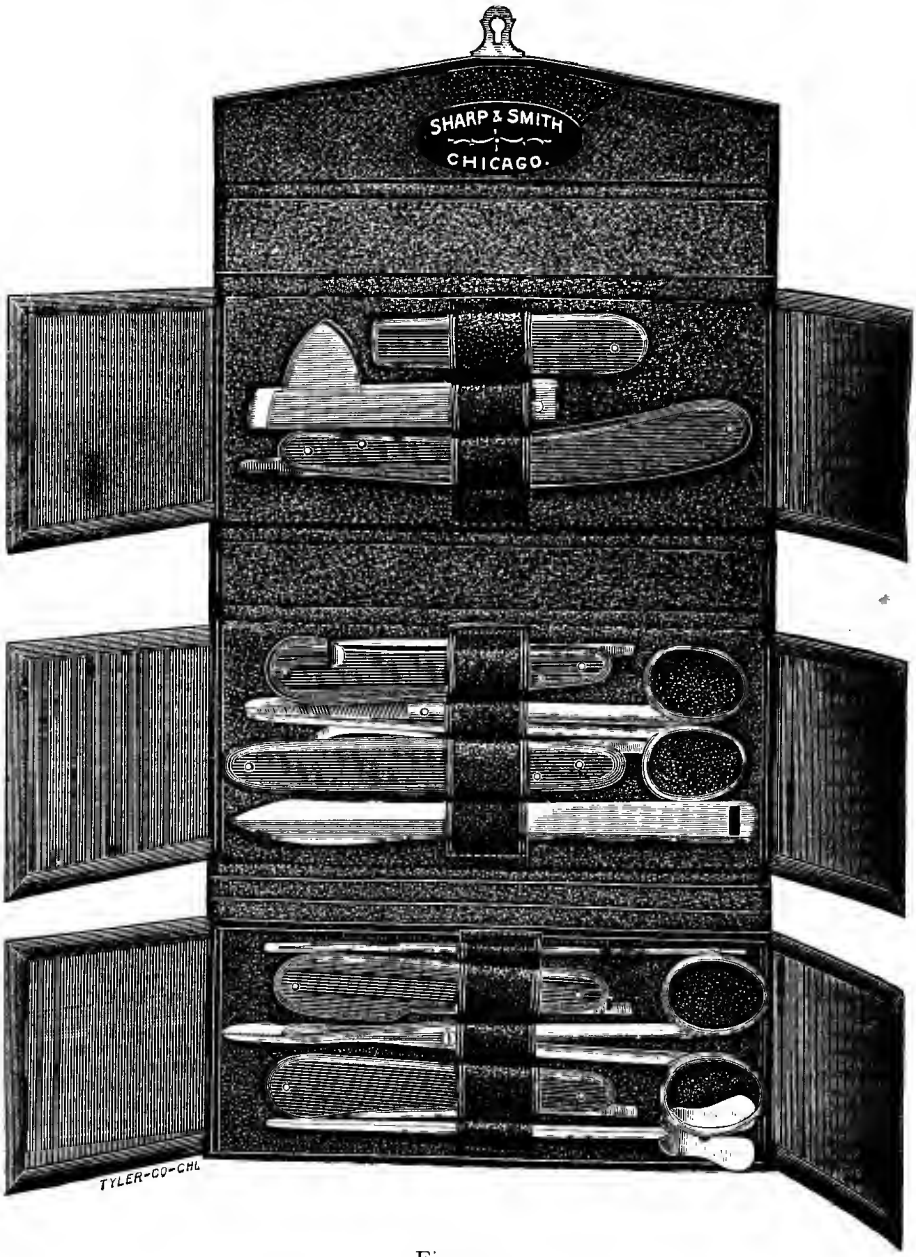


Fig. 325.

For contents, see opposite page.

POCKET INSTRUMENT CASES.

Fig. 325—Pocket Instrument Case, No. 1. Contains:

1 Thumb Lancet.
1 Probe Bistoury, Spring Back.
1 Scissors.
1 Seaton Needle.
1 Knicking Knife, Spring Back.
1 Scalpel, Spring Back.
1 Two-Blade Horn Fleam.
1 Hoof Knife, Spring Back.
1 Sharp Bistoury, Spring Back.
1 Jointed Silver Probe.
1 French Snap Forceps.
1 Director.

Needles and Silk in Three-fold Morocco Case.

Price.....$16.50 net.
Fig. 325 Pocket Instrument Case, Plain Handles. 14.50 "

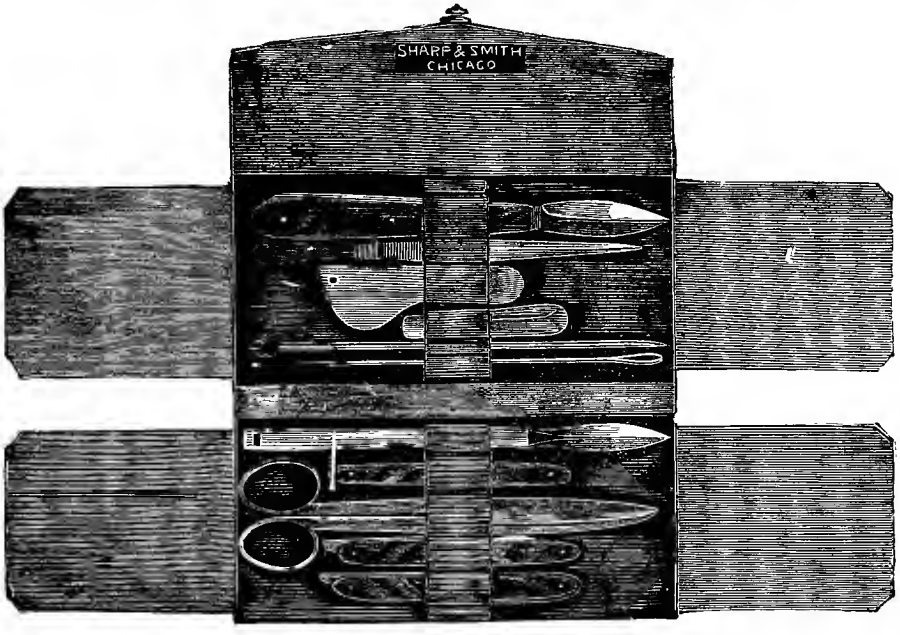


Fig. 326—Pocket Instrument Case, No. 2. Contains:

1 Probe Bistoury, Spring Back.
1 Scalpel, Spring Back.
1 French Snap Forceps.
1 Jointed Probe.
1 Knicking Knife.
1 Sharp Bistoury, Spring Back.
1 Scissors.
1 Thumb Forceps.
1 Director.

Needles and Silk in Two-fold Morocco Case.

Price.....$14.00 net.

Pocket Instrument Case, No. 3. Contains:

1 Scalpel, Spring Back.
1 Sharp Bistoury, Spring Back.
1 Scissors.
1 Director.
1 Probe Bistoury, Spring Back.
1 Knicking Knife.
1 Jointed Silver Probe.
1 Thumb Forceps.

Needles and Silk in One-fold Morocco Case.

Price.....$12 00
Same, with Plain Knives..... 9 75

POCKET INSTRUMENT CASES.

Pocket Instrument Case, No. 4. Contains:

1 Probe Bistoury, Plain.
1 Scalpel.
1 French Snap Forceps.
1 Jointed Probe.
1 Director.
1 Sharp Bistoury, Plain.
1 Scissors.
1 Thumb Forceps,
1 6 inch Seaton Needle.

Needles and Silk in Two-fold Morocco Case.

Price.....$11.50 net.

Fig. 327, No. 5.

Fig. 327—Two-fold Pocket Instrument Case, No. 5, Aseptic Knives. Contains:

1 Jointed Silver Probe.
1 Curved or Flat Scissors.
1 Director.
1 Scalpel.
1 Probe Bistoury.
1 Tenaculum.
1 Thumb Forceps.
1 Hoof Knife.
1 French Snap Artery Forceps.
1 Knicking Knife.
1 Sharp Bistoury.
Needles and Silk.

Price.....$14.00 net.

POCKET INSTRUMENT CASES AND POCKET CASE INSTRUMENTS.

		Net Prices.
Fig. 325	Pocket Instrument Case, No. 1	$16 50
" 326	" " " " 2	14 00
	" " " " 3	12 00
	" " " " 3, plain knives	9 75
	" " " " 4	11 50
Fig. 327	Aseptic Pocket Instrument Case, No. 5	14 00

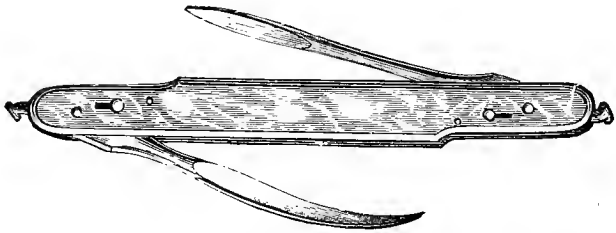


Fig. 350.

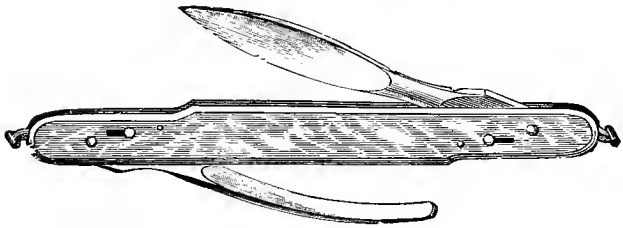


Fig. 351.

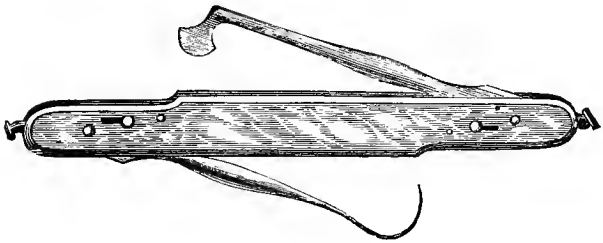


Fig. 352.

See page 23 for prices on Knives.

POCKET CASE INSTRUMENTS.

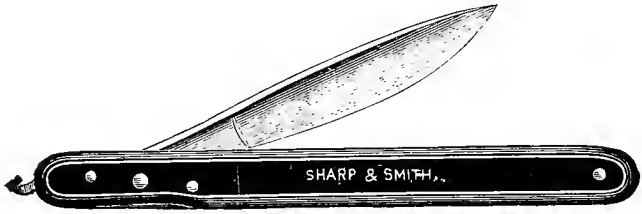


Fig. 353.

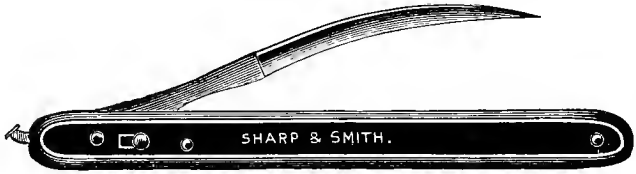


Fig. 354.

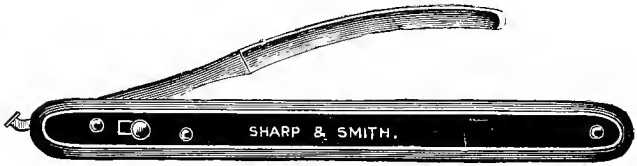


Fig. 355.

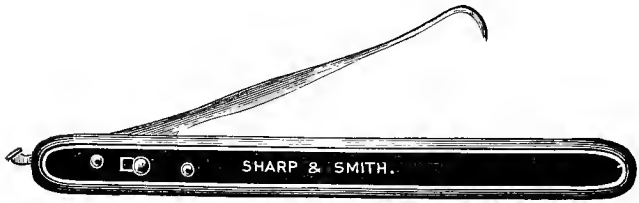


Fig. 356.

POCKET CASE INSTRUMENTS.

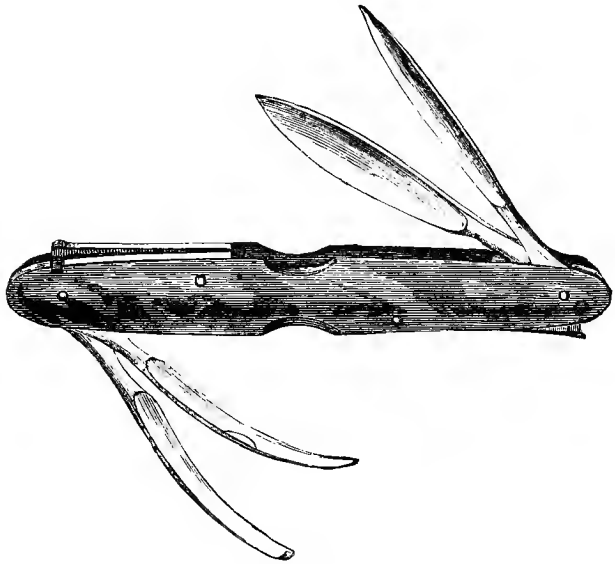


Fig. 357.

		Net Prices.
Fig. 350	Tenotome and Curved Sharp Bistoury, slide catch	$2 25
" 351	Scalpel and Curved Blunt Bistoury, slide catch	2 25
" 352	Tenaculum and Gum Lancet, slide catch	2 25
	We can furnish any blades wanted in the style of Figs. 350, 351, 352.	
Figs. 350, 351, 352	Plain Handles ... each,	1 50
Fig. 353	Scalpel, " "	75
" 353	" spring back	1 50
" 353	" slide catch	1 50
" 354	Sharp Curved Bistoury, plain	75
" 354	" " " slide catch	1 50
" 354	" " " spring back	1 50
" 355	Blunt " " plain	75
" 355	" " " slide catch	1 50
" 355	" " " spring back	1 50
" 356	Tenaculum, plain	75
" 356	" slide catch	1 50
" 356	" spring back	1 50
" 357	Four Bladed Spring Back Knife, containing Scalpel, Straight Sharp Bistoury, Curved Blunt Bistoury, and Curved Sharp Bistoury	3 75

POCKET CASE INSTRUMENTS.

Fig. 358.

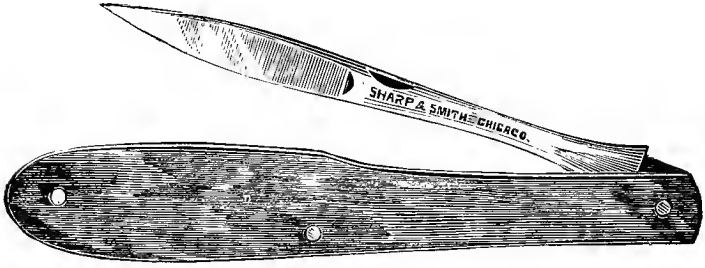


Fig. 359.

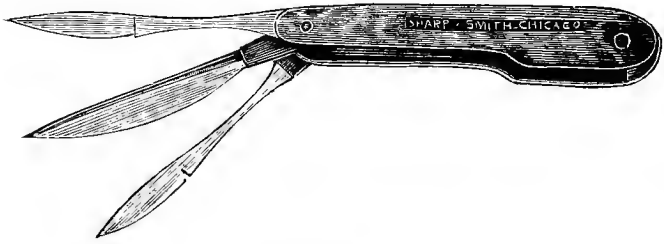


Fig. 360.

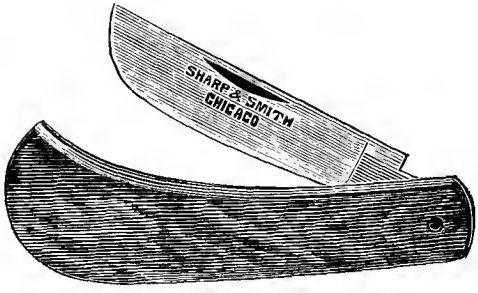


Fig. 361.

POCKET CASE INSTRUMENTS.

Fig. 362.

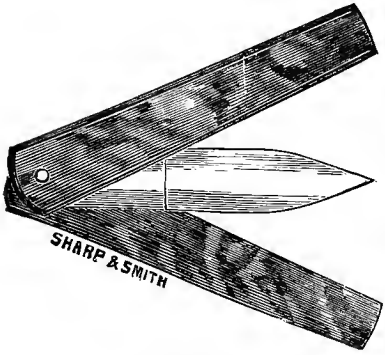


Fig. 363.

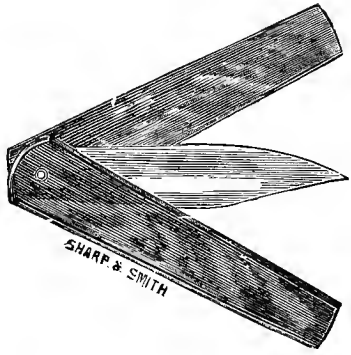


Fig. 364.

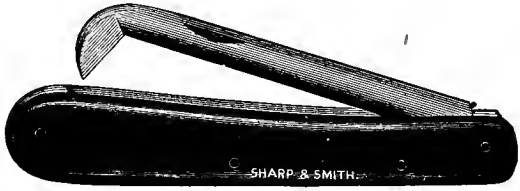


Fig. 365.

		Net Prices.
Fig. 358	Gum Lancet, plain	$0 75
" 358	" " slide catch	1 50
" 358	" " spring back	1 50
" 359	Knicking Knife, 1 blade	1 50
	" " 2 "	2 00
" 360	" " 3 "	2 50
" 361	Castrating " plain	75
" 361	" " spring back	1 25

POCKET CASE INSTRUMENTS.

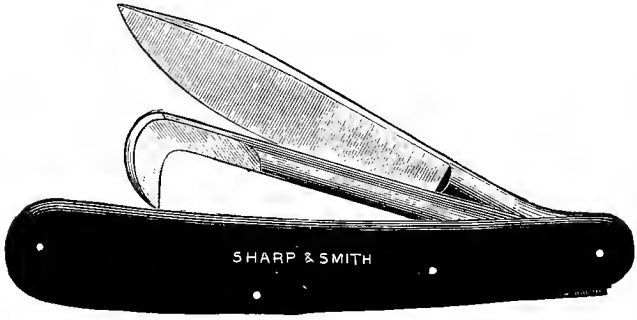


Fig. 366.

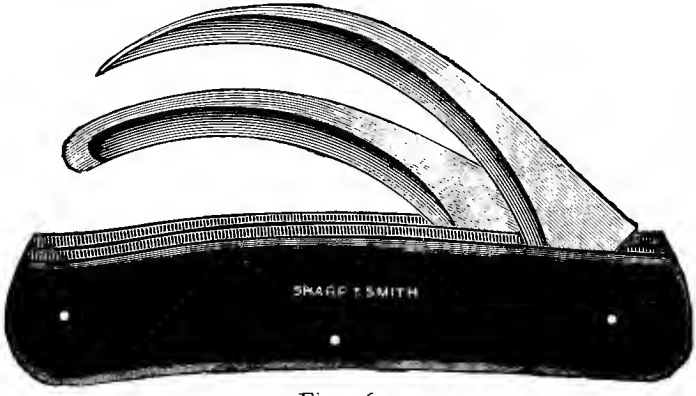


Fig. 367.

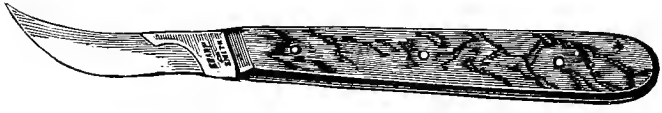


Fig. 368.

Fig. 369.

POCKET CASE INSTRUMENTS.

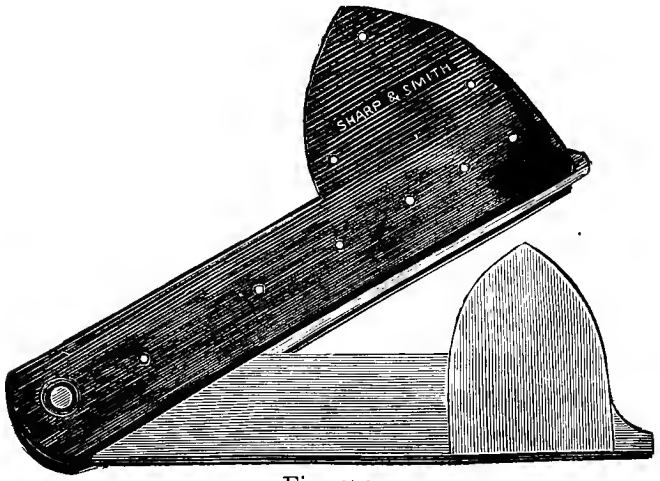


Fig. 370.

Fig. 371.

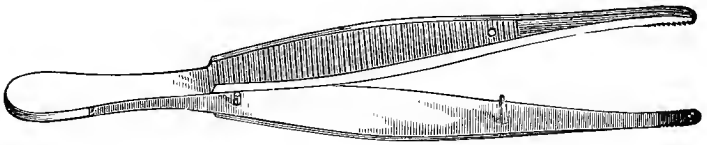
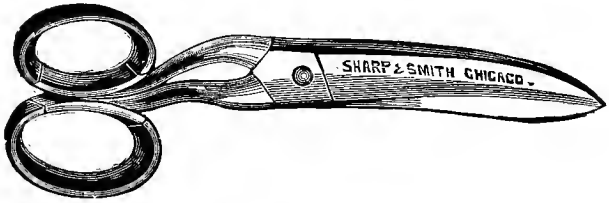


Fig. 372.

		Net Prices.
Fig. 362	Ziegler's Castrating Knife	$2 25
" 363	Thumb Lancet	75
" 364	Abscess "	75
" 365	Miles' Castrating Knife	1 50
" 366	Scalpel and Castrating Knife	2 25
" 367	Withers' Abscess Knife and Probe Bistoury	2 25
" 368	Sage Knives, R. and L., each	1 25
	" " double edge	1 25
" 369	Hoof Knives, " "	1 25
	" " folding, plain	1 00
	" " spring back	1 50

POCKET CASE INSTRUMENTS.



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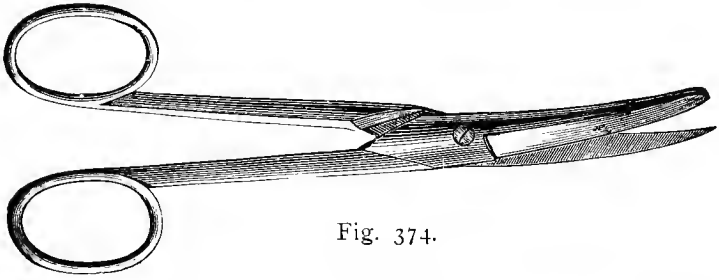
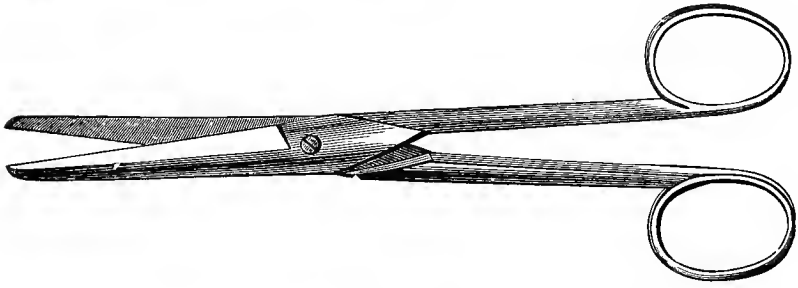


Fig. 374.



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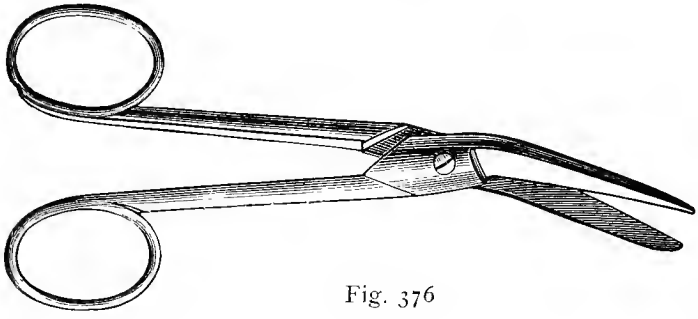


Fig. 376

POCKET CASE INSTRUMENTS.

		Net Prices.
Fig. 370	Fleams, 1 Blade, Horn	$ 1 25
" 370	" 2 " "	1 50
" 370	" 3 " "	1 75
" 370	" 2 " Brass	65
" 370	" 3 " "	75
" 371	Seaton Needle, 5 and 6 inch	50
" 371	" " 7 " 8 "	65
" 371	" " 9 " 10 "	75
" 371	" " 12 " 14 "	90
" 371	" " 16 " 18 "	1 00
" 371	" " 1 Joint	1 75
" 371	" " 2 "	2 25
Probes,	Silver, 6 inch, heavy	50
"	" 8 " "	75
"	" 12 " "	1 00
"	Plated, 6 " "	35
"	" 8 " "	50
"	" 12 " "	75
"	Silver, Jointed, 10 inch	1 25
"	" " 12 "	1 50
"	Plated, " 10 "	90
"	" " 12 "	1 25
Fig. 372	Plain Thumb Forceps	50
" 373	Fetlock Shears, Plain	1 00
" 373	" " with Leather Rings	1 25
" 374	Scissors, Curved on Flat	1 00
" 374	" " " 6 inch	1 50
" 375	" Straight	75
" 375	" " 6 inch	1 10
" 376	" Knee Bent	90
" 376	" " heavy	1 50
" 376	" " 8 inches	2 50

NOTICE.

When goods are returned for exchange or to be repaired, the name and address of person sending them should be written on the package.

POCKET CASE INSTRUMENTS.

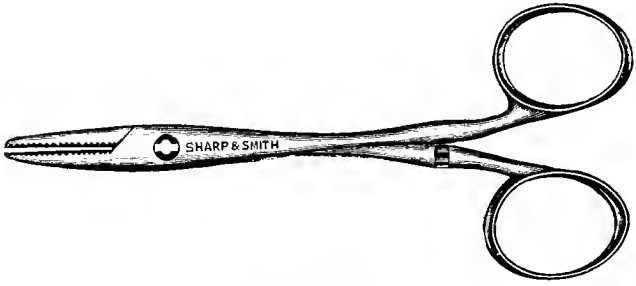


Fig. 377.

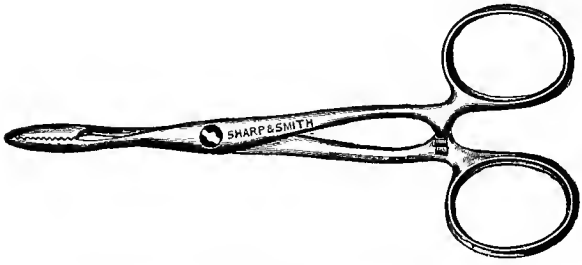


Fig. 378.

Fig. 379

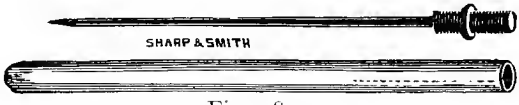


Fig. 380.

Fig. 381.

POCKET CASE INSTRUMENTS.

Fig. 382.

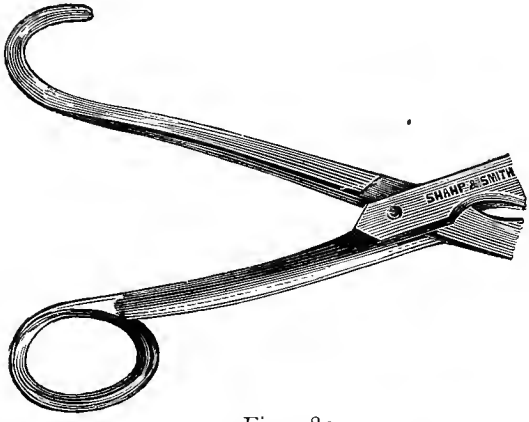


Fig. 383.

Fig. 384.

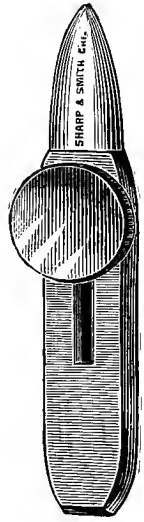


Fig. 385.

		Net Prices
Fig. 377	Tait's Artery Forceps	$ 1 50
" 378	French Snap Artery Forceps	1 25
" 379	Caustic Holder, Silver Burner	75
" 379	" " Hard Rubber	50
" 380	Exploring Needle, Small Ivory	60
" 380	" " Large Metal	75
" 381	Director, 6 inch	60
" 382	Exploring Trocar	1 00
" 383	Roweling Scissors, Best	2 25
" 383	" " Plain	1 75
" 384	Langenbeck's Artery Clamp	50
" 385	Embryotomy Knife, concealed, Metal	2 25
" 385	" " " Hard Rubber	3 00

POCKET CASE INSTRUMENTS.

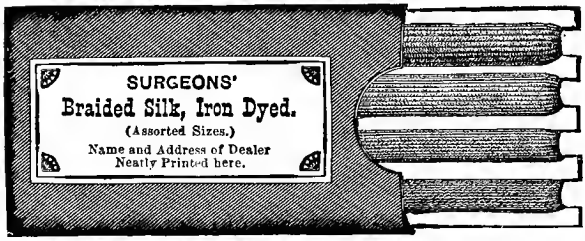
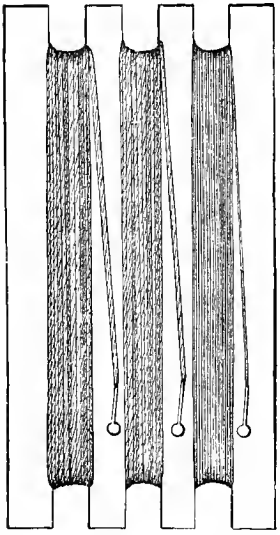


Fig. 386.



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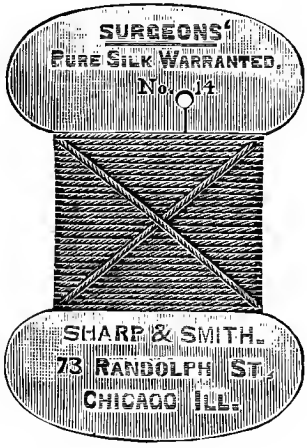

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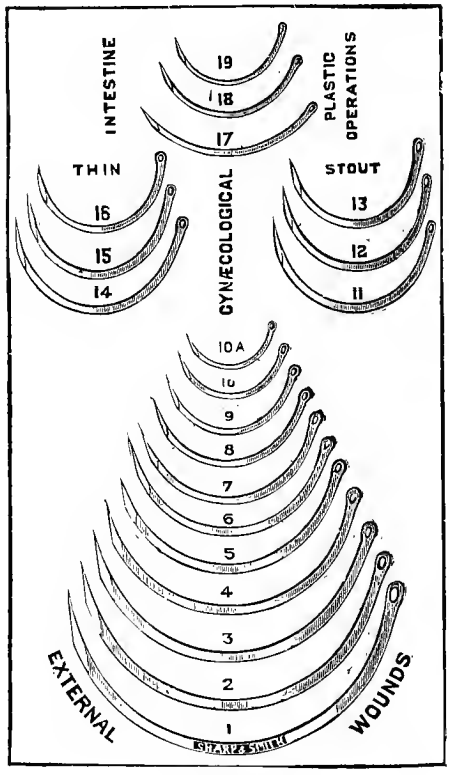


Fig. 389.

POCKET CASE INSTRUMENTS.

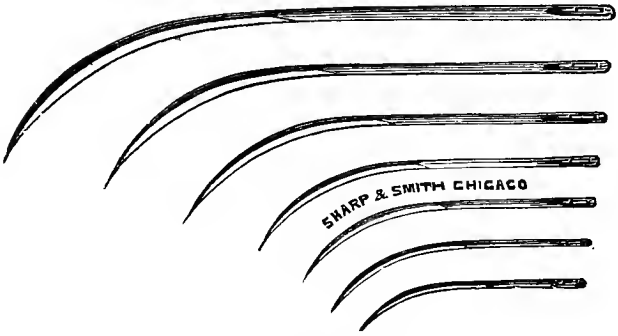


Fig. 390.

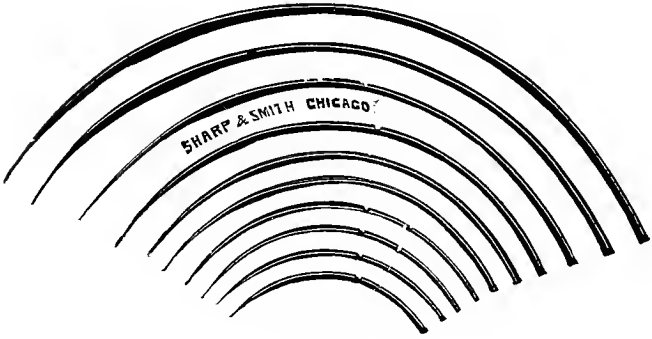


Fig. 391.

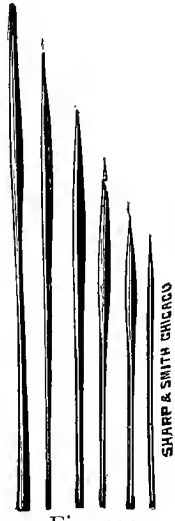


Fig. 392.

		Net Prices.
Fig. 386	Braided Silk, four Sizes, on Card, White	$0 50
" 386	" " " " " Iron Dyed	50
" 386	Twisted " " " " White	25
" 387	" " three " " "	25
" 387	" " " " " Iron Dyed	25
" 388	" " one " " White	10
" 388	" " " " " Iron Dyed	10
	Sharp & Smith's Braided Silk, one Size, on Card, White	30
	" " " " " " " Iron Dyed	30
	" " " " in Skeins, White	15
	" " " " " Iron Dyed	15
	Morgan's Braided Silk, six Sizes, on Card	1 25
	Cable Twist, in Skeins, per Skein	20
Fig. 389	Hagedorn Needles, any Pattern, per doz	1 25
" 390	Half Curve Needles, per doz	1 00
" 391	Full Curve " "	1 00
" 392	Straight " "	1 00
" 393	Self-Threading " "	2 00

(See next page for cut of Self-Threading Needles.)

HOOF INSTRUMENTS.

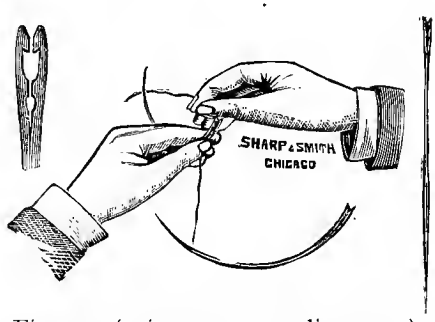


Fig. 393 (prices see preceding page).

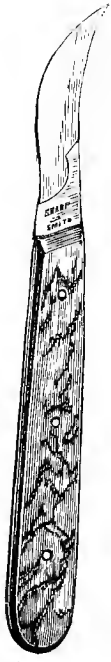
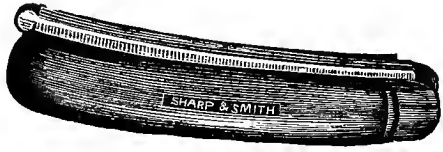


Fig. 395.

Fig. 396.



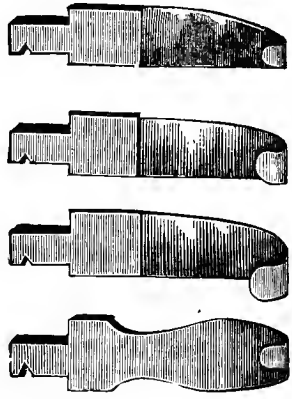


Fig. 394.

Fig. 397.

HOOF INSTRUMENTS.

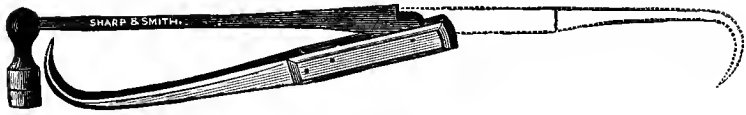


Fig. 398.

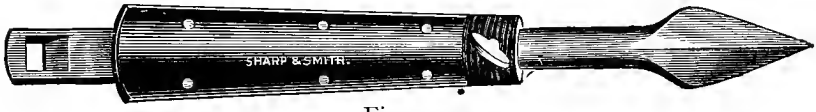


Fig. 399.

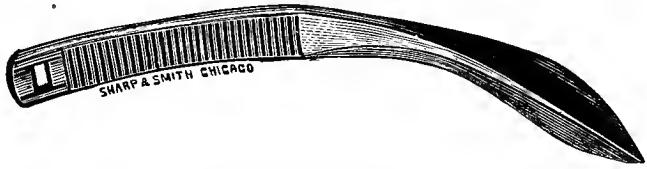


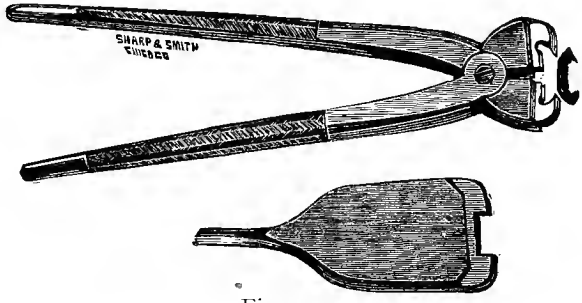
Fig. 400.

		Net Prices.
Fig. 394	Hoof Knives, per set	$ 6 00
" 394	" " " in Case	6 75
" 395	Sage Knives, Right or Left	1 25
" 396	Hoof " " "	1 00
" 397	" " Double Edge	1 25
" 398	Hook and Hammer	1 75
" 399	Sewell's Frog Seaton Needle	2 50
" 400	Sewell's Frog Seaton Needle, plain	75

NOTICE.

When goods are returned for exchange or to be repaired the name and address of person sending them should be written on the package.

HOOF INSTRUMENTS.



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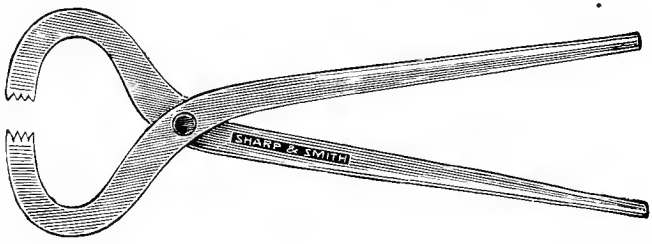
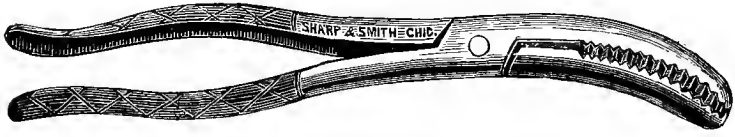


Fig. 402.



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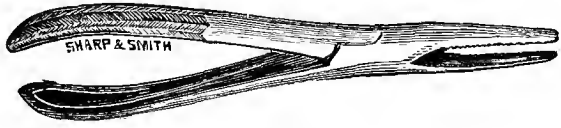

Fig. 404.

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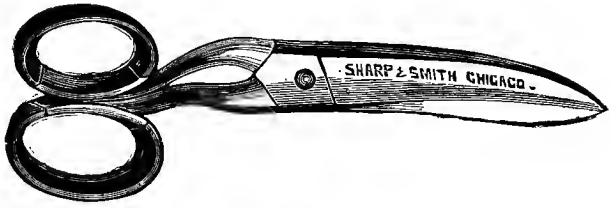

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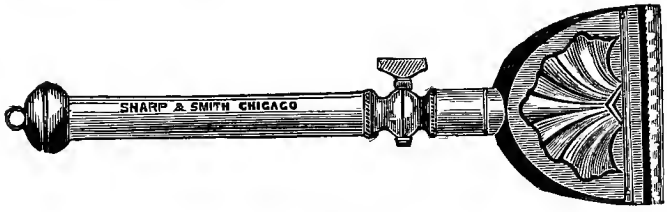

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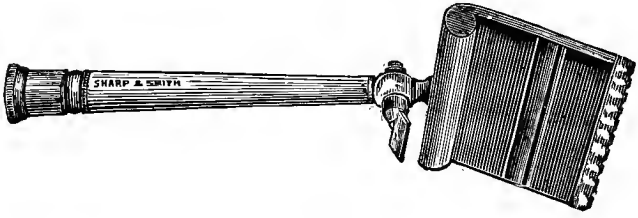


Fig. 407.

		Net Prices.
Fig. 401	Sand Crack Forceps and Cautery Iron	$6 00
	" " "	4 50
	Clamps, per doz	35
" 402	Hoof Searcher	2 00
" 403	Splinter Forceps, heavy	3 00
" 404	" " light	1 75
" 405	Fetlock Shears, plain	1 00
	" " leather ring	1 25
" 406	Singeing Lamp, for alcohol	3 00
" 407	" " for gas	3 00

CASTRATING AND SPAYING INSTRUMENTS.

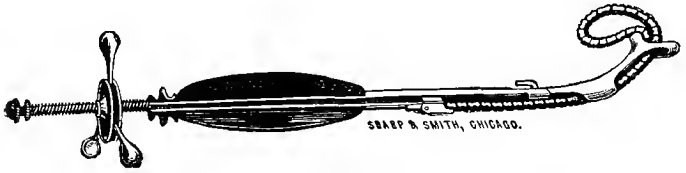
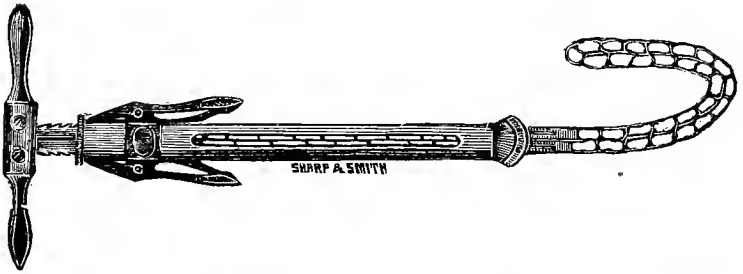


Fig. 408.

Fig. 409.



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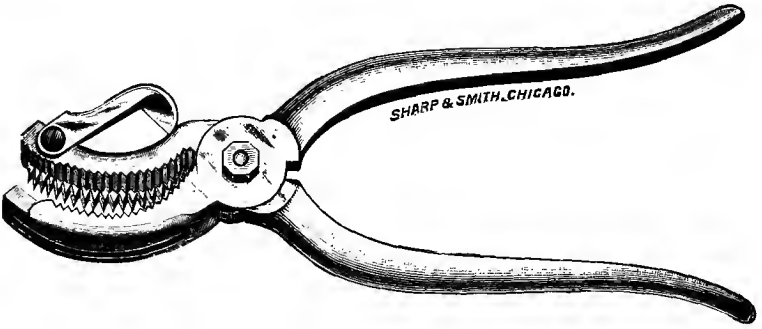


Fig. 411.

CASTRATING AND SPAYING INSTRUMENTS.

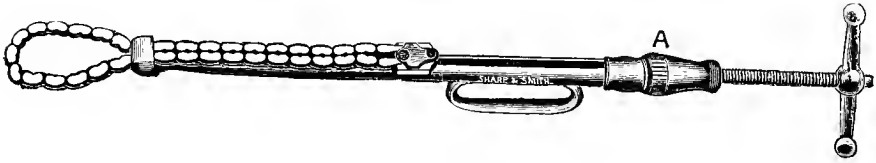


Fig. 412

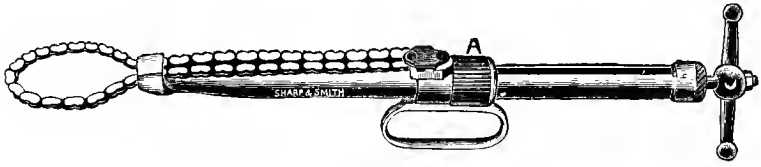


Fig. 413.

In presenting this Ecraseur (Fig. 413) to the veterinary profession, we feel confident that at last we have an instrument that excels all others. The improvement consists of a corrugated piece "A" that when turned to the left loosens it from the screw and enables the operator to slide it up the barrel and take up the slack chain. This is done without drawing out the screw or lengthening the ecraseur, and there is no wear on the screw. Dr. T. D. Hinebauch, of La Fayette, Ind., says: "It is the most rapid instrument I have ever used. I castrated a two year old colt in one and a quarter minutes. This is from the time he was brought out till he was returned castrated."

Price.....$15 00

See page 41 for prices on Ecraseurs.

CASTRATING AND SPAYING INSTRUMENTS.

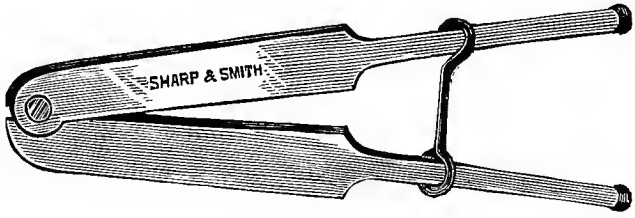
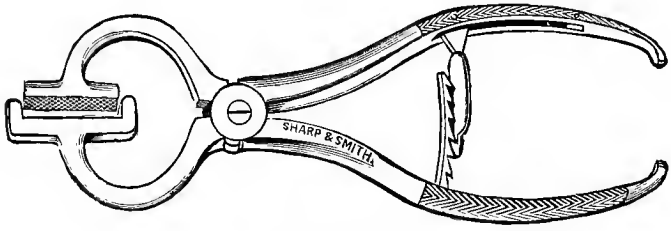


Fig. 414.



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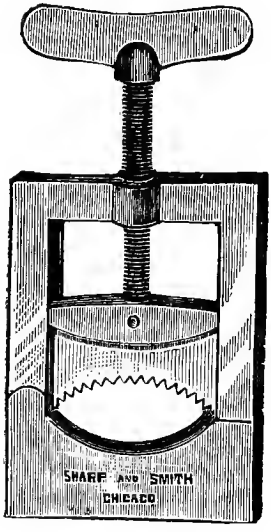


Fig. 416.

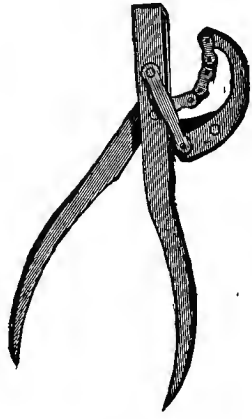


Fig. 417.

CASTRATING AND SPAYING INSTRUMENTS.

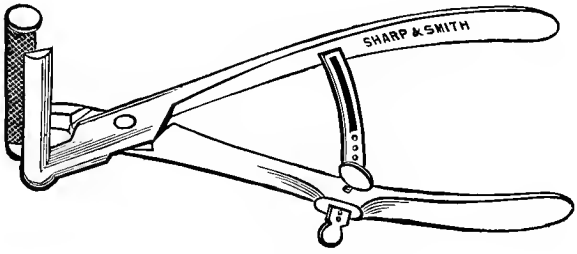


Fig. 418.

		Net Prices.
Fig. 408	Tieman's Ecraseur	$15 00
" 409	Farmer Miles' Ecraseur	12 00
" 410	Chassagnaic's "	18 00
" 411	Trullinger's Castrating Forceps	10 00
" 412	Sharp & Smith's Improved Ecraseur	15 00
" 413	" " Patent "	15 00
" 414	Castrating Clamp	4 00
" 414	" " with ratchet	4 75
" 415	" Forceps	6 00
" 416	House's Castrating Clamp	7 50
" 417	Halstead's Patent Ecraseur	10 00
" 418	Williams' Castrating Clamp	4 00

Please note that prices in this Catalogue are strictly net.

Discounts are confusing, therefore we have taken off all discounts from our prices, leaving them "Net," as quoted.

CASTRATING AND SPAYING INSTRUMENTS.

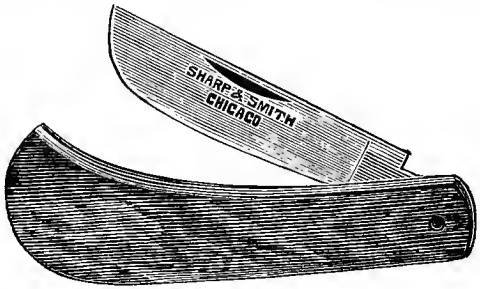


Fig. 419.

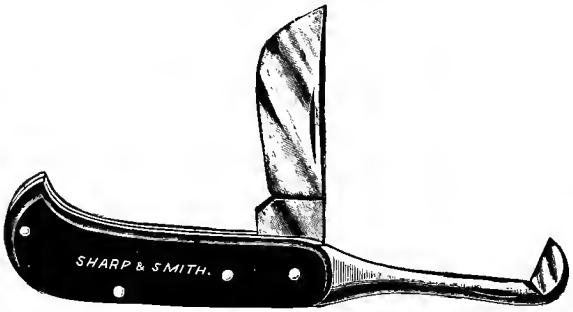


Fig. 420.

Fig. 421.

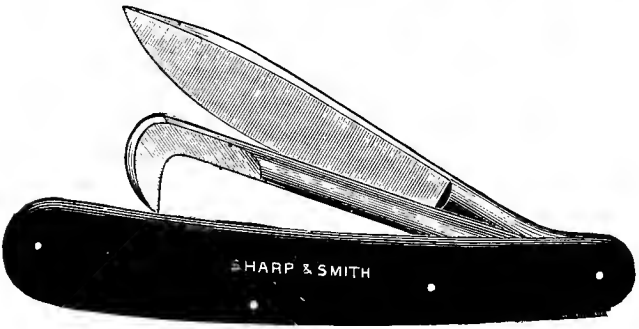
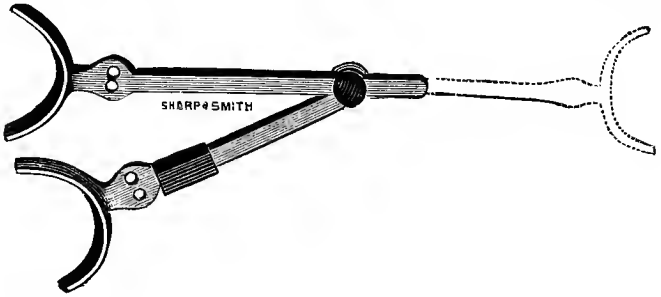


Fig. 422.

CASTRATING AND SPAYING INSTRUMENTS.



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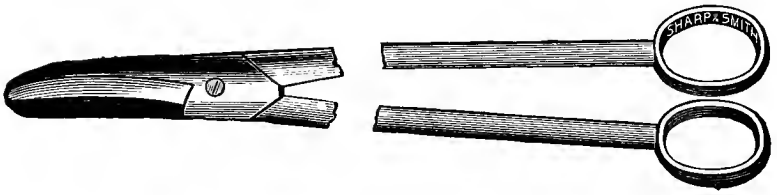


Fig. 424.

Fig. 425.

Fig. 419	Plain Castrating Knife	$ 75
" 419	Spring Back Castrating Knife	1 25
" 420	Ziegler's " "	2 25
" 421	Miles' " "	1 50
" 422	Scalpel and " "	2 25
" 423	Miles' Leg Spreader	6 00
" 424	" Spaying Shears	6 00
" 425	Williams' Spaying Speculum	7 50
" 426	Chariere's Vaginal Speculum (following page)	19 50
" 427	" Spaying Clamp " "	9 50
	Spaying Needles, each	35
	" " (Miles') each	95
	" Sound "	75

CASTRATING AND SPAYING INSTRUMENTS.

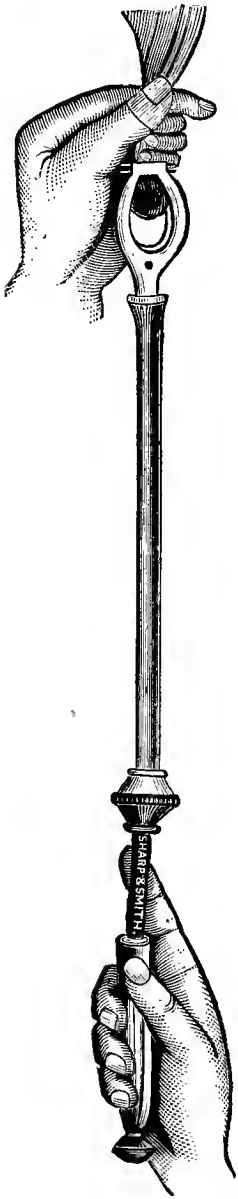


Fig. 427.

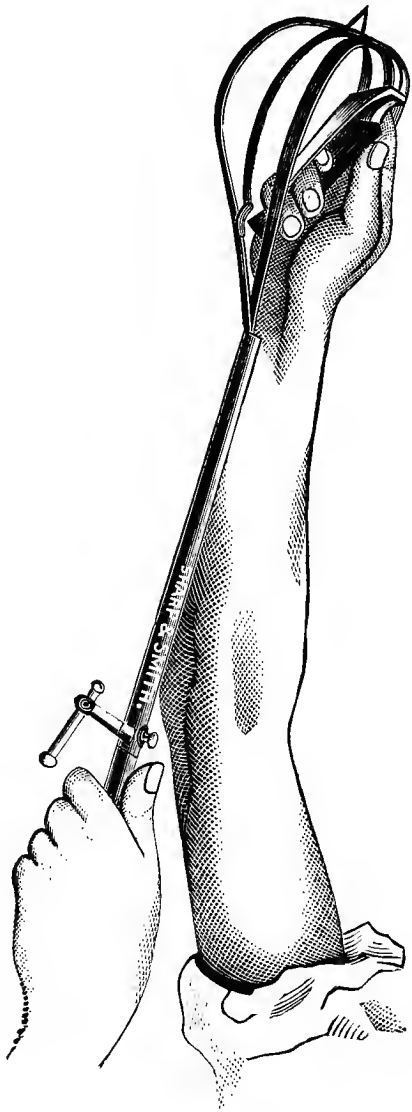
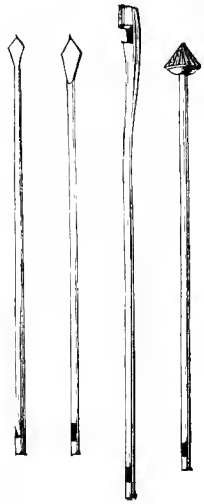


Fig. 426.

☞ We solicit your patronage for the making of new and improved Veterinary Apparatus. We make Patterns, Models, etc., of new goods FREE. We will have Wood Cuts and Electrotypes made, and advertise them in the next issue of our Catalogue.

SHARP & SMITH.

OPERATING INSTRUMENTS.



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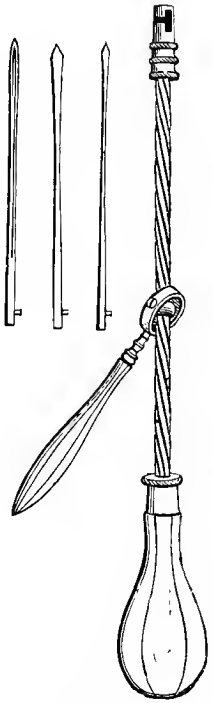

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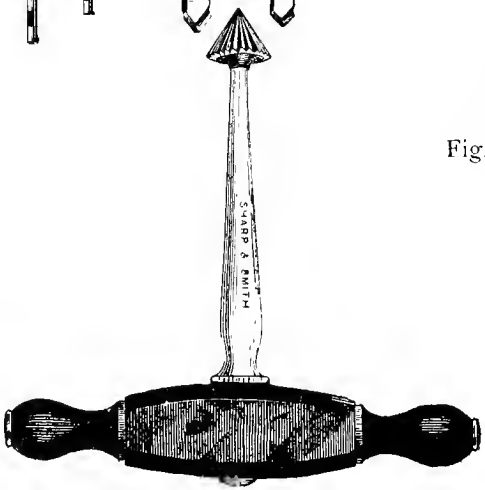


Fig. 502.

OPERATING INSTRUMENTS.

Fig. 503.

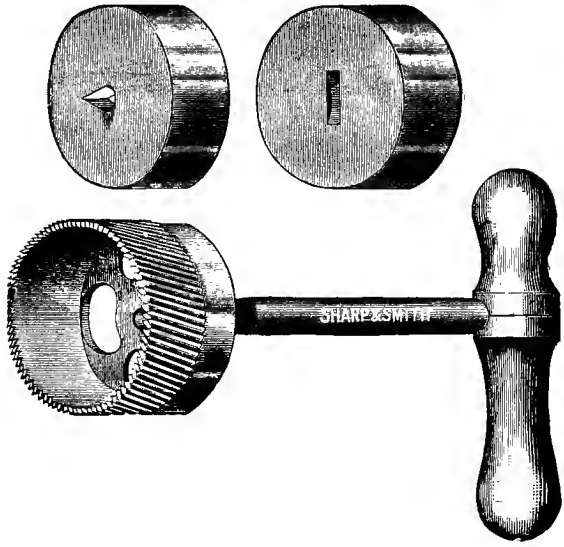


Fig. 504.

Fig. 503.

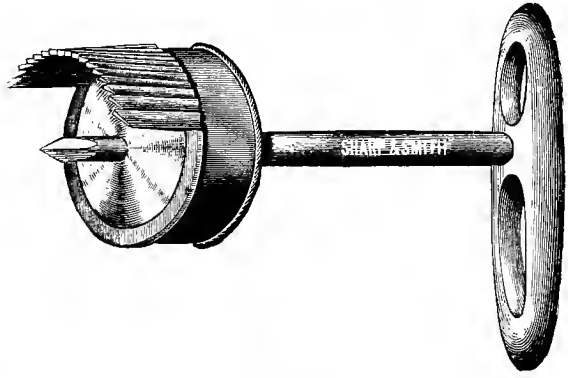


Fig. 504.

		Net Prices.
Fig. 500	Brainard's Set of Drills	$ 7 65
" 501	Hamilton's "	5 25
" 502	Buck's "	3 75
" 503	Conical Trephine and Handle	3 00
	Straight " "	3 00
" 504	Robert's Set of " "	20 00

OPERATING INSTRUMENTS.

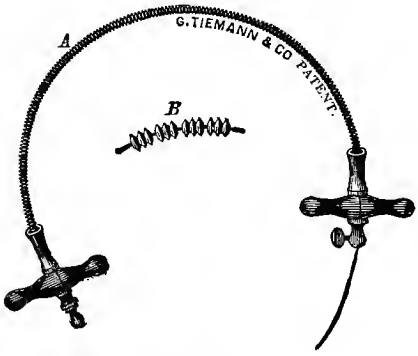


Fig. 505.

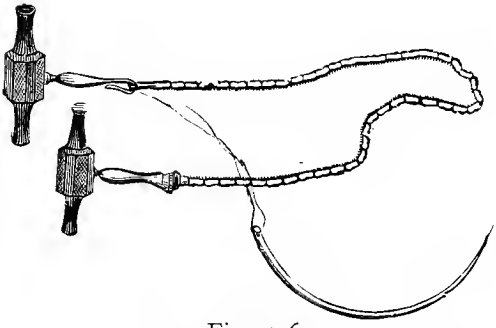
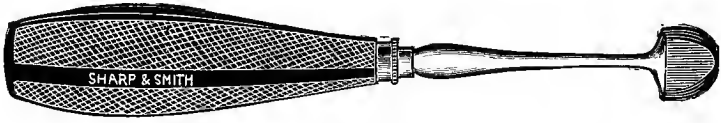


Fig. 506.

Fig. 507.

Fig. 509.



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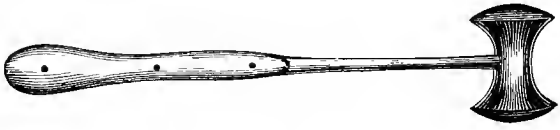
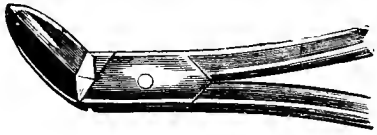


Fig. 510.

OPERATING INSTRUMENTS.

Fig. 511.

Fig. 512.



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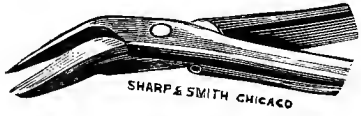


Fig. 517.

Fig. 517-A.

Fig. 513.

Fig. 515.

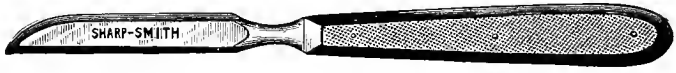
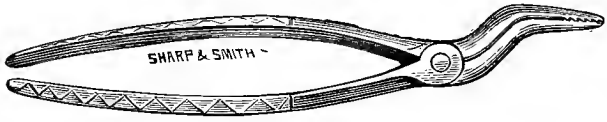


Fig. 514.

		Net Prices.
Fig. 505	Tiemann's Beaded Saw	$4 50
" 506	Best Chain "	7 50
" 507	Marshall's Osteotrite Olive Point	1 85
" 508	" " Round "	1 85
" 509	Hebra's Bone Scraper	1 85
" 510	Lead Mallet	1 85
" 511	Plain Chisel	85
" 511	" Gouge	85
" 512	Curved Hand Gouge	1 25
" 513	Simon's Bone Scoop	1 75
" 514	Fine Ebony Handle Bone Scraper	1 50
" 515	Liston's Straight Bone Forceps	1 85
" 515	" " " " with spring	2 25
" 516	" Curved " "	2 25
" 517	" Angular " "	2 25
" 517-A	Satterlee's " "	2 00

OPERATING INSTRUMENTS.

Fig. 518.



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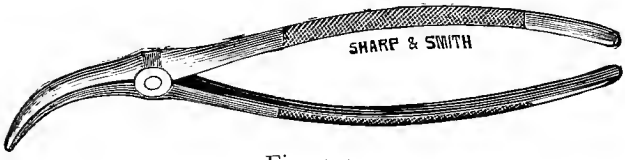
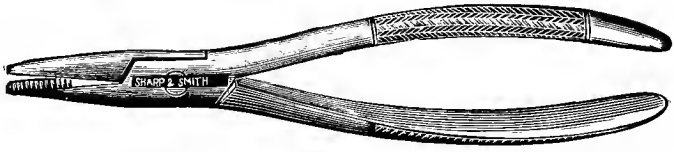


Fig. 520.

Fig. 522.



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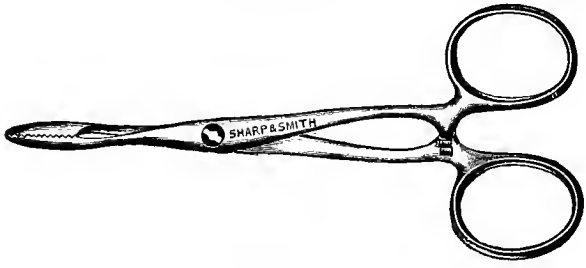
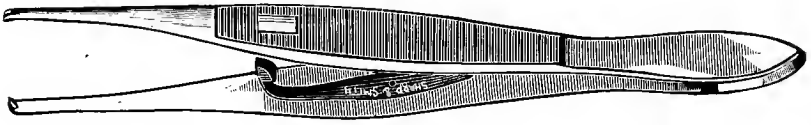


Fig. 523.

OPERATING INSTRUMENTS.



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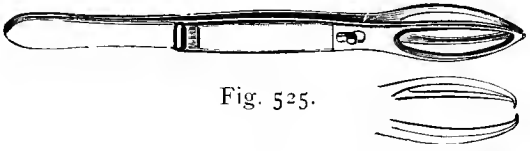

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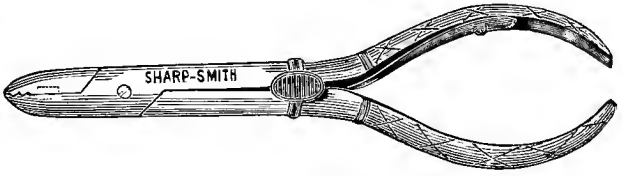


Fig. 526.

Fig. 527

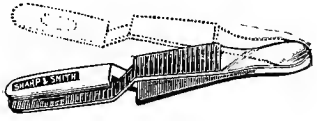
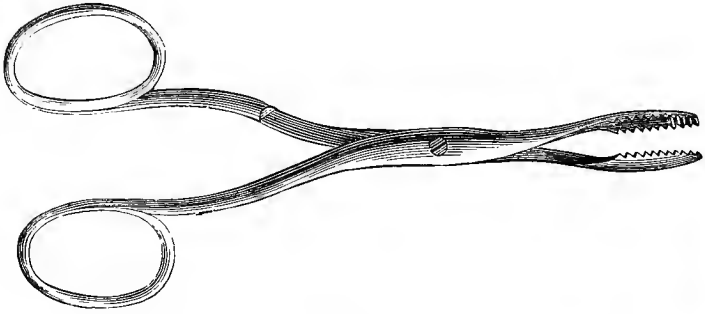


Fig. 528.

		Net Prices.
Fig. 518	Duck Bill Sequestrum Forceps	$1 85
" 519	Van Buren's " "	2 25
" 520	Curved (Markoe's) " "	2 25
" 521	Straight " "	1 75
" 522	Elevator and Raspatory	1 00
" 523	Peans' Fr. Snap Artery Forceps	1 25
" 524	Liston's Spring Catch " "	1 25
" 524	" plain " "	85
" 525	Fenestrated Spring " " "	1 50
" 525	" Slide " " "	1 75
" 526	Stimson's Needle or Pin Cutting Forceps	2 75
" 527	Langenbeck's Artery Forceps	50
" 528	" Aseptic Artery Forceps	1 15

OPERATING INSTRUMENTS.



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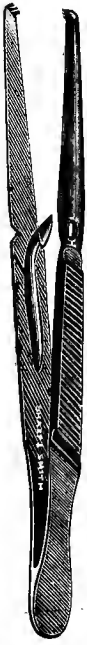

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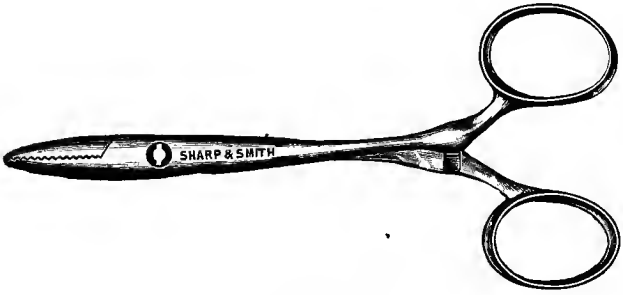


Fig. 530.

Fig. 533.

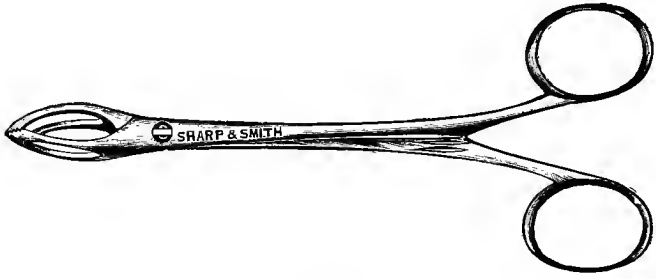
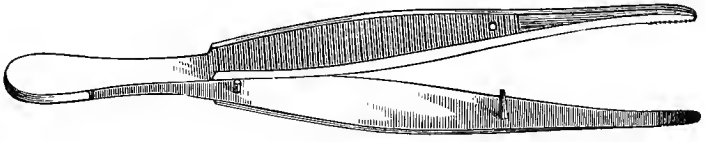


Fig. 531.

OPERATING INSTRUMENTS.



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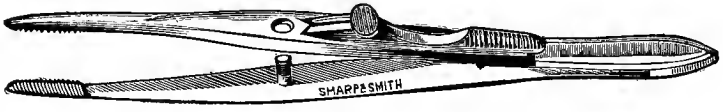

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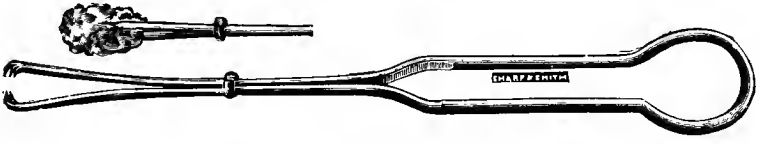


Fig. 536.

We call the attention of the profession to an easily cleaned and perfectly aseptic sponge holder.

The instrument is nine inches long and made out of a single piece of steel wire, nickel plated. The blades are brought together by an incomplete ring of steel, which can be readily slipped off, thus permitting the instrument to be thoroughly cleaned.

The cut represents the instrument so clearly that further explanation is unnecessary

The advantages that are claimed for this instrument are:

1. That it is easily cleaned, hence thoroughly aseptic.
2. That it is light, strong and durable.
3. That it is cheap.

		Net Prices.
Fig. 529	Plain Dressing Forceps	$1 00
" 530	Spencer Wells' Compression Forceps	2 00
" 531	Fenestrated Artery Forceps, Scissor Handles	2 50
" 532	MacLean's " " Spring Catch	1 25
" 533	Langenbeck's " " Slide "	1 10
" 534	Plain " " Regular	50
" 534	" " " Large	75
" 535	Fricke's " "	1 80
" 536	Husson's Sponge Holder	75

OPERATING INSTRUMENTS.

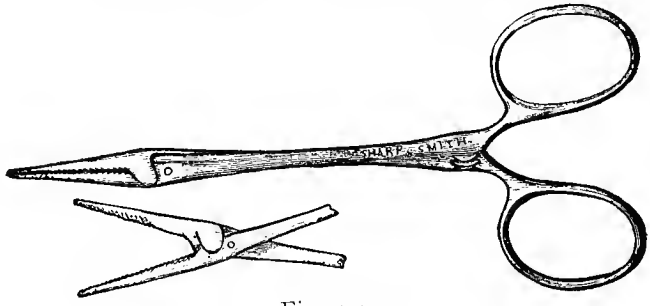


Fig. 537.

A New Antiseptic Scissors and Forcep Lock.

By Charles Noah Dixon Jones, M. D., Surgeon to the Woman's Hospital, Brooklyn.

The objections to the ordinary separable or antiseptic lock are four: 1. It is easily broken off by careless manipulation. 2. It is not always easily cleaned. 3. In a few weeks the blades work loose, so that they do not close accurately. 4. Each time the blades of the scissors are ground the pivot must be shortened.

The new forceps lock which I introduced a few weeks ago (see "New York Medical Journal," Feb. 11, p. 151) is not entirely free from some of these objections. 1. The blades of the forceps or scissors are liable to become separated, during the progress of an operation, and cause annoyance and loss of time. 2. The pivot in time works loose. 3. It is very difficult to grind the blades of the scissors accurately, owing to the projecting arm.

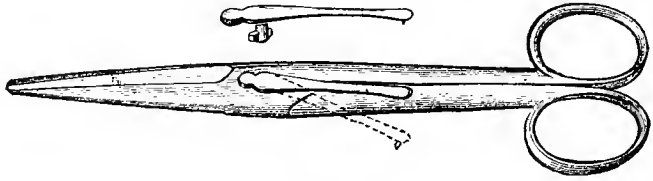


Fig. 538.

In order to overcome these difficulties, I have constructed a lock after the following pattern: The pivot is attached to a spring lever, so that the scissors or forceps consist of three separate pieces, which can be easily adjusted. The blades are plain, with only an opening in each to receive the pivot, so that they can be easily ground or cleaned. The scissors are put together as follows: The blades are placed together, and the pivot is passed through the opening in each blade, and then sprung around into place.

The spring lever always serves to keep the cutting edges in apposition, and to compensate for wear of the surfaces. When properly closed, the blades cannot by any amount of careless handling or rough manipulation become separated or twisted apart.

The cut explains itself.

OPERATING INSTRUMENTS.

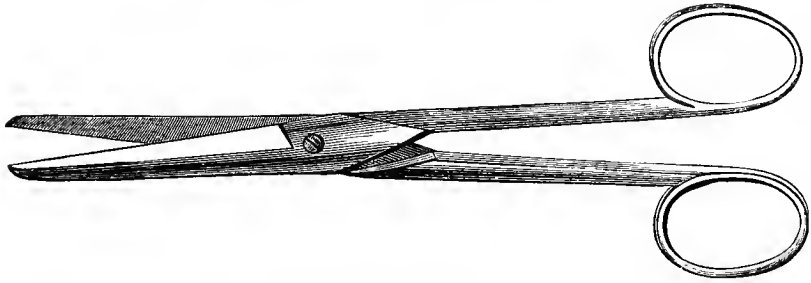


Fig. 539.

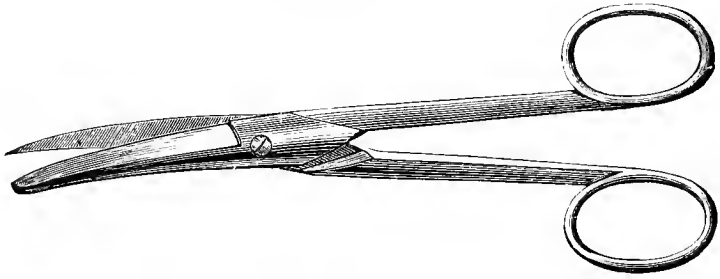


Fig. 540.

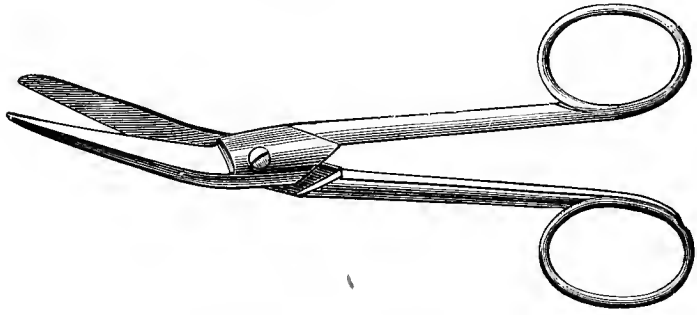


Fig. 541.

		Net Prices.
Fig. 537	Dr. Chas. N. Dixon Jones' Hæmostatic Forceps with Collins' new lock	$2 50
" 538	Dr. Chas. N. Dixon Jones' Aseptic Scissors	2 00
" 539	Straight Dressing Scissors	75
" 539	" " " 6-inch	1 10
" 540	Curved or Flat " "	1 00
" 540	" " " " " 6-inch	1 50
" 541	Knee Bent " "	90
" 541	" " " " heavy	1 50
" 541	" " " " 8-inch	2 50

OPERATING INSTRUMENTS.

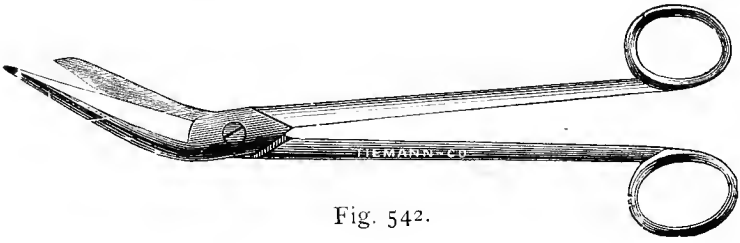


Fig. 542.

Fig. 543.

Fig. 544.

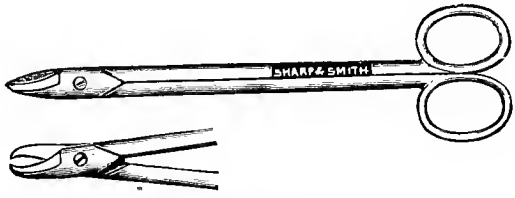
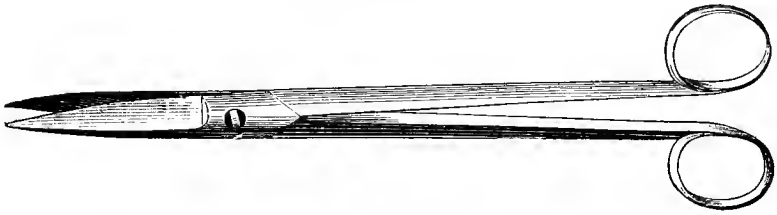


Fig. 545.

Fig. 546.

OPERATING INSTRUMENTS.



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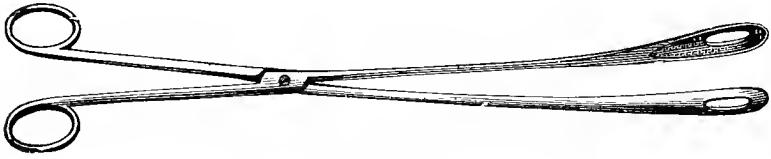

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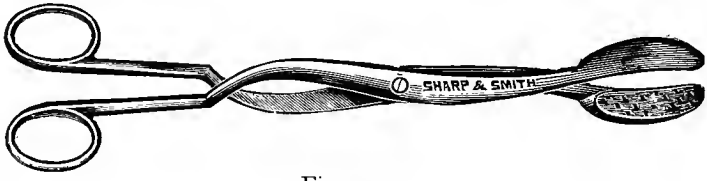
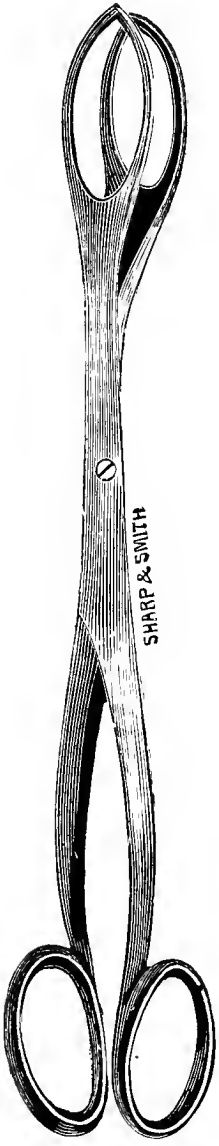


Fig. 549.

Fig. 550.

			Net Prices.
Fig. 542	Bozeman's Angular Scissors,	long	$ 2 50
" 543	Double Curve	" "	2 75
" 544	Clark's Saw Tooth	" Curved, long	4 50
	" " "	" Straight, "	3 75
" 545	Smith's Wire Cutting	" long	3 00
" 546	Long Curved	"	2 00
" 547	" Straight	"	2 00
" 548	Plain Lithotomy Forceps		1 85
" 549	Fine "	"	2 25
" 550	Curved "	"	2 25

OPERATING INSTRUMENTS.



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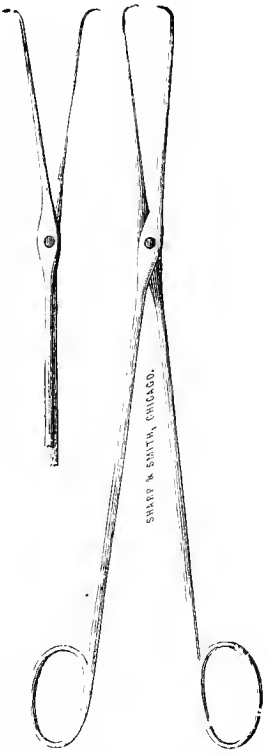

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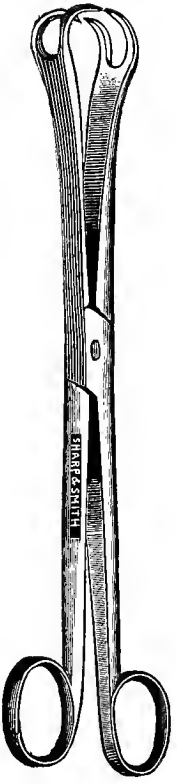

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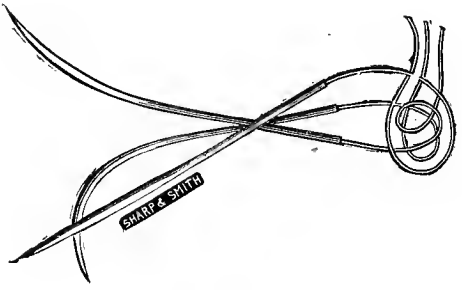
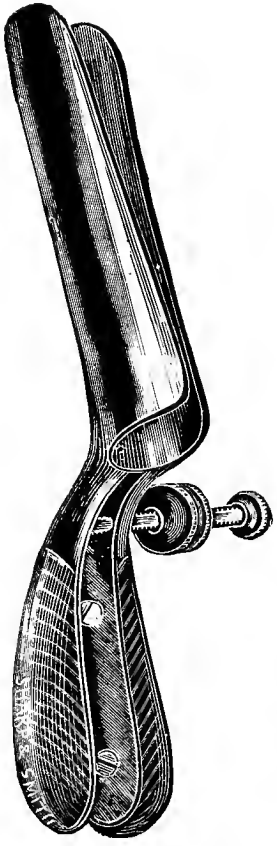


Fig. 554.

OPERATING INSTRUMENTS.



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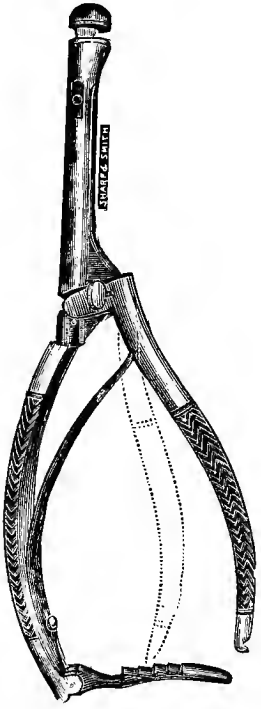

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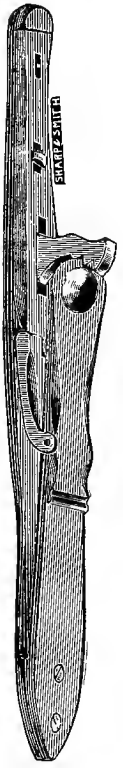

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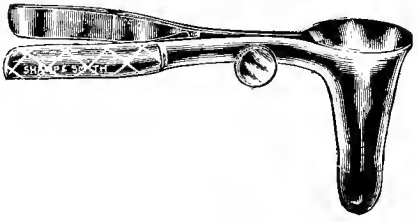
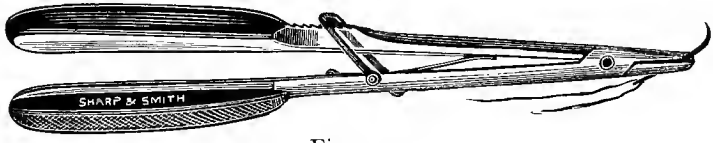


Fig. 556.

		Net Prices.
Fig. 551	Fenestrated Lithotomy Forceps	$ 2 25
" 552	Ball's Tenaculum "	2 25
" 553	Byford's Volsellum "	2 75
" 554	Needles for Silver Wire, each	20
" 555	Bivalve Nasal Speculum	3 00
" 556	S. & S. " "	3 50
" 557	Hagedorn's Needle Holder	6 00
" 558	" Pocket Case "	6 50

OPERATING INSTRUMENTS.



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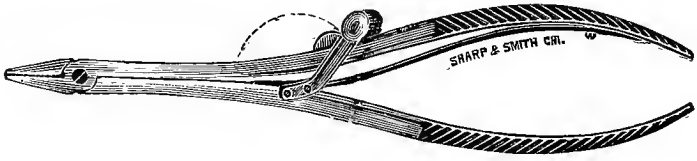


Fig. 560.

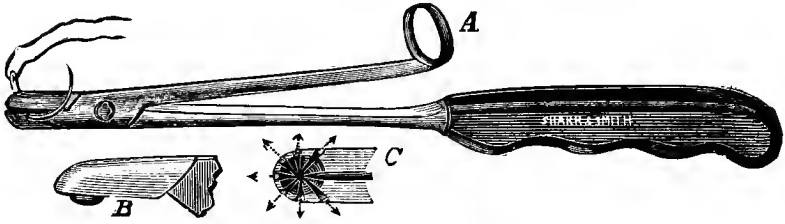


Fig. 561.

This Needle Holder, Fig. 561, is constructed in such a manner as to hold at different angles a very large or very small, decidedly curved or absolutely straight Hagedorn or round needle. The principle of holding the different curved and shaped needles of this design consists in having the ends of the forceps for seizing the needle ground to fit each other like the ball and socket joint. The socket or lower end of the forceps is ground in grooves at three or four different angles to a point below the base of the socket. And thus the needle fits in either one of these several grooves, and the ball end of the forceps presses directly upon the needle in the center of the socket, and holds it firmly. The parts are disjointing; one portion is long for the hand to grasp firmly or lightly, as may be needed, the other is shorter, and made with a ring for the end of the thumb. This is placed at right angles to the axis of the instrument.

OPERATING INSTRUMENTS.

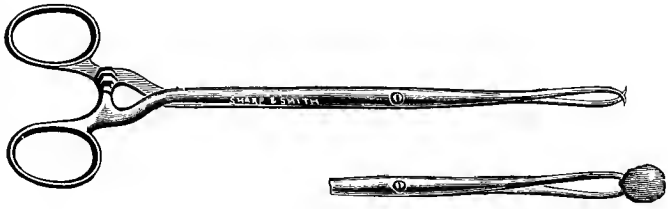


Fig. 566.

Fig. 563.

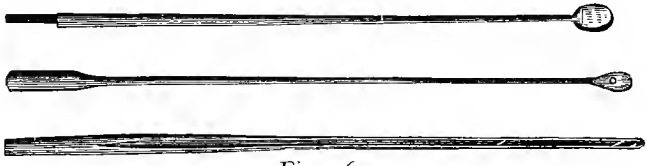


Fig. 564.

Fig. 562.

Fig. 565.

		Net Prices.
Fig. 559	Russian Needle Holder	$ 3 00
" 560	Reiner's " "	3 00
" 561	Hanks' " "	3 00
" 562	Ethridge's " "	3 75
" 563	Sayre's Vertebrated Silver Probe	6 00
" 564	Hamilton's Jointed Probe, with Director and Porcelain Head	1 50
" 565	Nelaton's Bullet Probe	45
" 566	Prussian Bullet Forceps	2 25

OPERATING INSTRUMENTS.

Fig. 567.

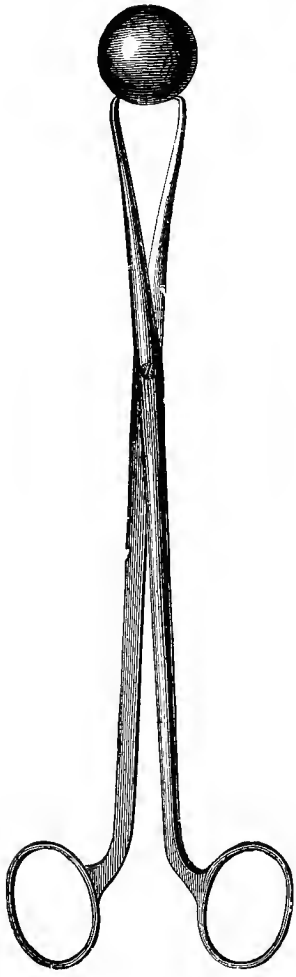


Fig. 568.

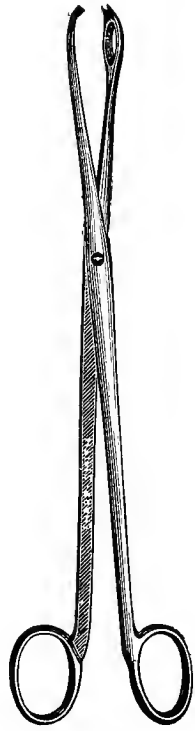


Fig. 569.

Fig. 570.

Fig. 571.

OPERATING INSTRUMENTS.

Fig. 589.

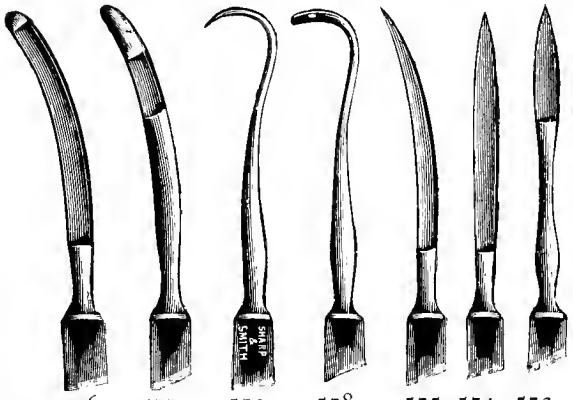
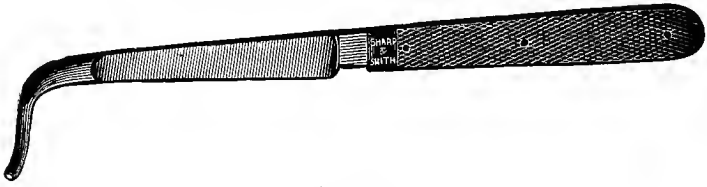


Fig. 572.

		Net Prices.
Fig. 567	U. S. A. Bullet Forceps	$ 1 50
" 568	American " "	1 50
" 569	Gross' " "	1 75
" 570	T. & Co.'s " Scoop	1 30
" 571	Spiral Bullet Probe, 10 inches long, Porcelain Head	1 00
" 572	Operating Scalpel, Ebony Handle	1 00
" 573	Knicking Knife, Ebony Handle	1 00
" 574	Straight Bistoury " "	1 00
" 575	Sharp Pointed Curved Bistoury, Ebony Handle	1 00
" 576	Probe " " " " "	1 00
" 577	Hernia Bistoury, Ebony Handle	1 00
" 578	American Needle " "	1 00
" 579	Tenaculum " "	1 00
" 580	Grooved Director, 6 inches, Ebony Handle	60

OPERATING INSTRUMENTS.



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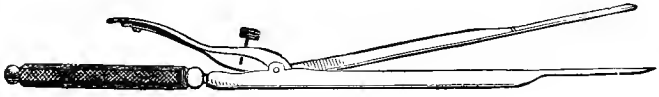

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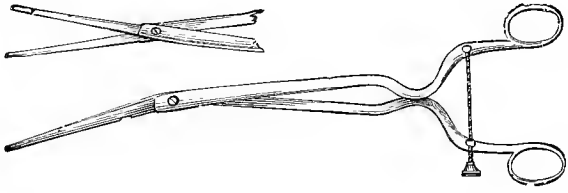

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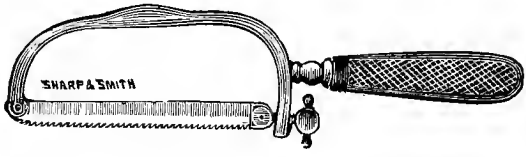


Fig. 584.

Fig. 585.

Fig. 586.

OPERATING INSTRUMENTS.

Fig. 587.

Fig. 588.

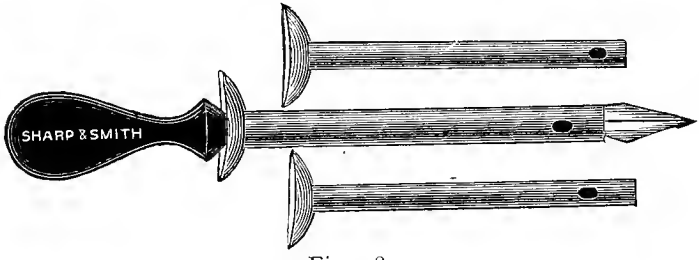


Fig. 589.

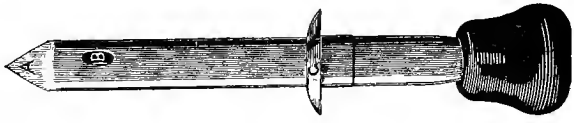


Fig. 590.

		Net Prices.
Fig. 581	Neurotomy Knife, R. & L.	$ 1 25
	" Hook	1 50
" 582	Simpson's Hysterotome	5 25
" 583	Stohlman's "	5 50
" 584	Bow Saw, 2 Blades	4 50
" 585	Shifting Buck Tooth Saw	1 50
" 586	Separating Saw	1 00
" 587	Horse Trocar, Reversible	1 50
" 588	Cattle "	1 50
" 589	" " with 3 Canulas	3 00
" 590	Trocar for Sheep	1 50

OPERATING INSTRUMENTS.

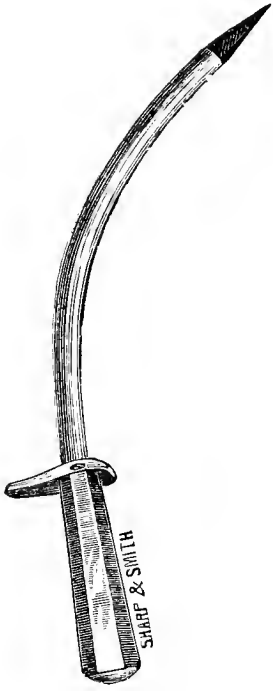


Fig. 591.

Fig. 592.

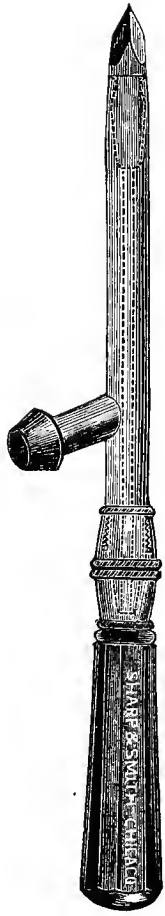


Fig. 593.

Fig. 594.

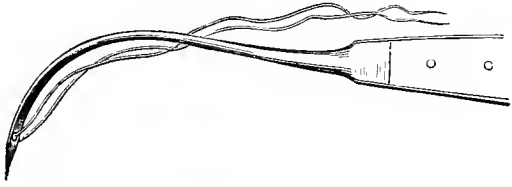
NOTICE.

When goods are returned for exchange or to be repaired the name and address of person sending them should be written on the package.

OPERATING INSTRUMENTS.

Fig. 595.

Fig. 596.



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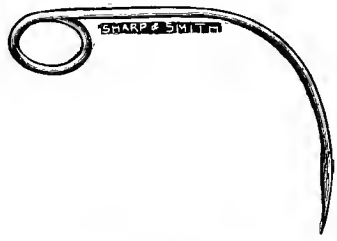

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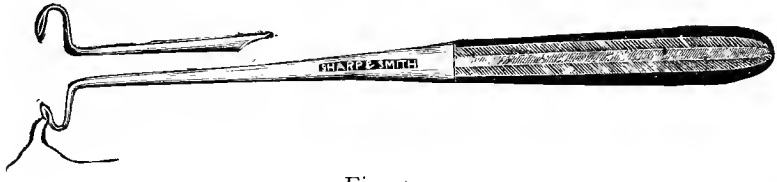

Fig. 599.

		Net Prices.
Fig. 591	Curved Trocar and Canulas	$ 1 75
" 592	Buck's Curved Trocar and Canulas	3 50
" 593	Trocar and Canula, with Discharge Tube	3 25
" 594	Exploring Trocar and Canula	1 00
" 595	Peaslee's Set of Three Artery Needles	2 25
" 596	Skene's Artery Needles	1 25
" 597	Plain Curved Artery Needles	75
" 598	Knox's " "	75
" 599	Wilson's R. & L. Artery Needles, each	1 50

OPERATING INSTRUMENTS.

Fig. 600.

Fig. 601.

Fig. 602.

Fig. 603.

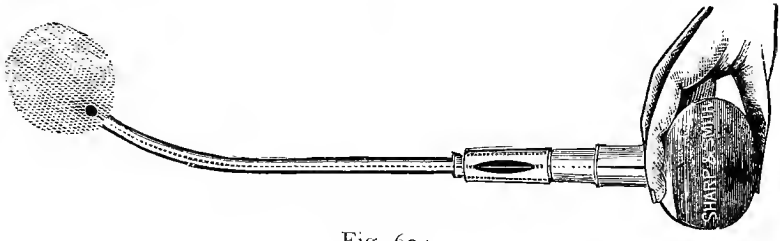

Fig. 604.

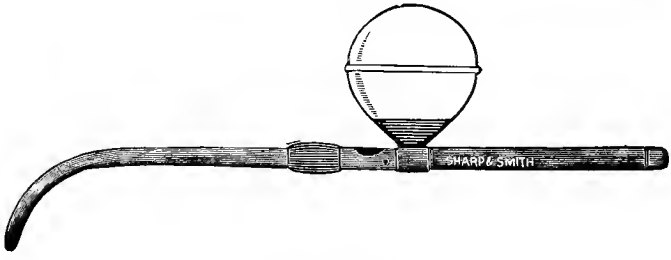

Fig. 605.

OPERATING INSTRUMENTS.

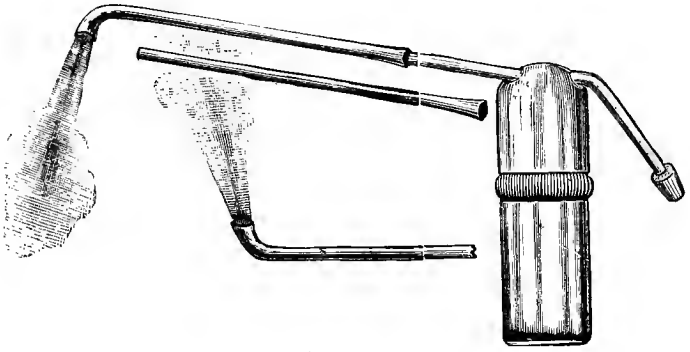

Fig. 606.

THE DEVILBISS POWDER BLOWER

Can be used with either condensed air apparatus or rubber bulb. Can readily change from one kind of powder to another by slipping cups apart, empty and refill with any powder that may be desired. It diffuses the powder perfectly, as it carries it by the counter current of air, and not by a direct one, which is always liable to throw the powder in a bunch.

		Net Prices.
Fig. 600	Silver Burner Caustic Holder	$2 00
" 601	" " " "	1 50
" 601	Platina " " "	2 50
" 602	Silver Plated Burner Caustic Holder	75
" 602	Hard Rubber Caustic Holder	50
" 603	Alum Pencils, each	25
" 603	Blue Vitriol Pencils, each	25
" 603	Nitrate of Silver Pencils	75
" 604	Clay's Powder Blower	1 00
" 605	Leffert's " "	1 75
" 606	Devilbiss " "	1 00
" 606	" " " with Bulb	1 50

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OPERATING INSTRUMENTS.

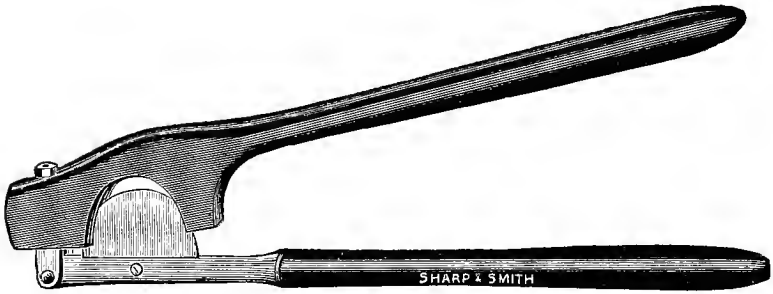


Fig. 607.

Docking Shears.....$8.50 net.

Fig. 608.

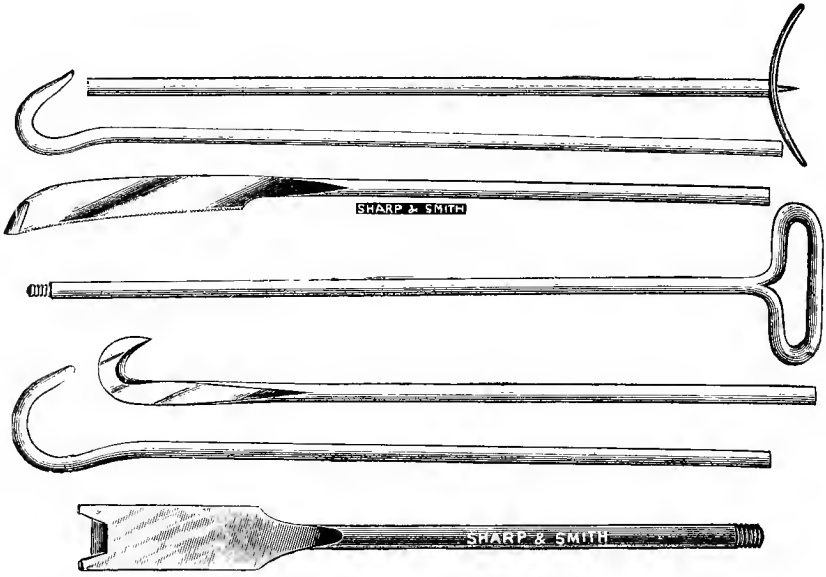
Baker's Hobbles.....$10.00 pair, net.

We call attention to the front part of this Catalogue, stating that prices are strictly NET. We believe this to be the best plan, because Instrument Lists differ to such an extent that the Veterinarian would have great difficulty in figuring out the NET prices of each house in our line.

Goods bearing our name warranted.

Instrument Makers to the principal Hospitals and Infirmaries in the West.

OBSTETRICAL AND PARTURITION INSTRUMENTS.



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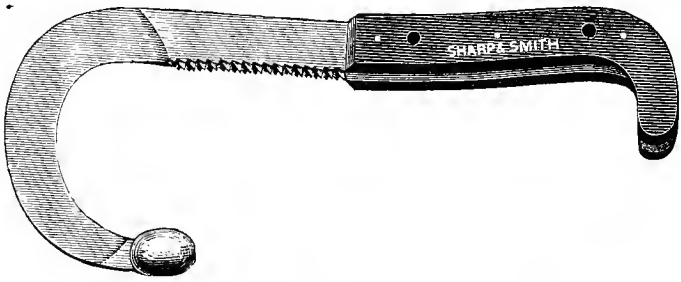

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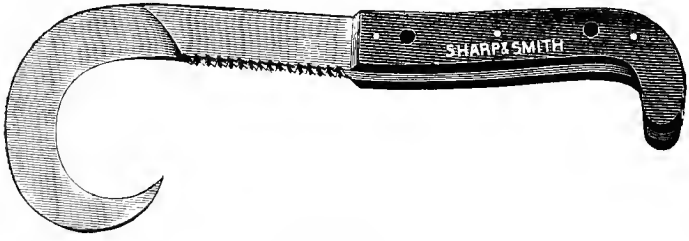
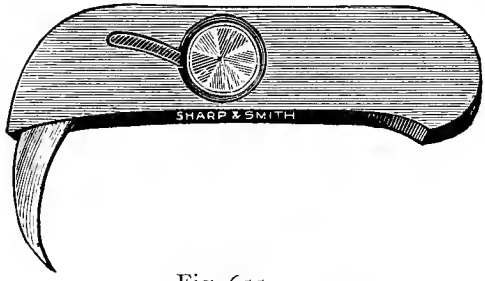


Fig. 652.

OBSTETRICAL AND PARTURITION INSTRUMENTS.

Fig. 653.

Fig. 654.



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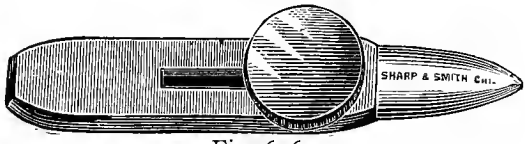


Fig. 656.

		Net Prices.
Fig. 650	Sharp & Smith's Obstetrical Set	$15 00
" 650	" " " " in Roll Case	18 00
	PRICE OF SINGLE PIECES.	
	Repulser	$ 2 75
	Sharp Hook, long	2 00
	Saw	3 00
	Handle	1 25
	Sharp Cutting Hook	2 50
	Blunt Hook, long	2 00
	Chisel	2 75
Fig. 651	Prof. Withers' Obstetrical Knife Probe	3 75
" 652	" " " " Sharp	3 50
	McClintock's Embryotome	15 00
" 653	Parturition Shears	12 00
" 654	Blunt Hook and Crotchet, 15 inches	3 75
" 655	Embryotomy Knife, Curved, Concealed Blade	3 00
" 656	" "	2 25

OBSTETRICAL AND PARTURITION INSTRUMENTS.

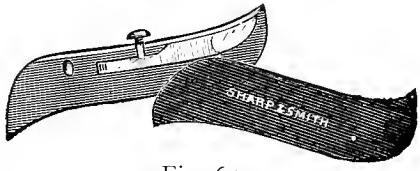
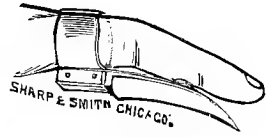


Fig. 657.

Fig. 658.



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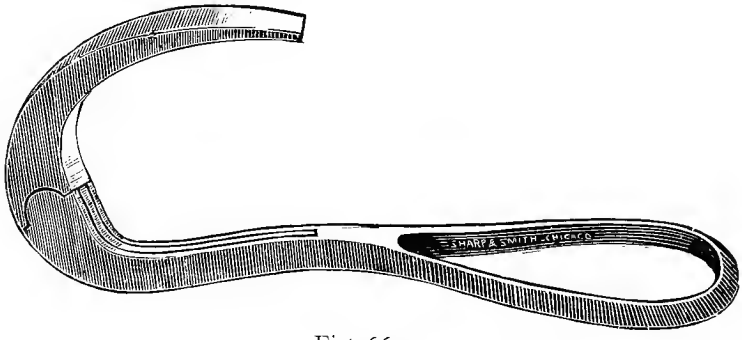

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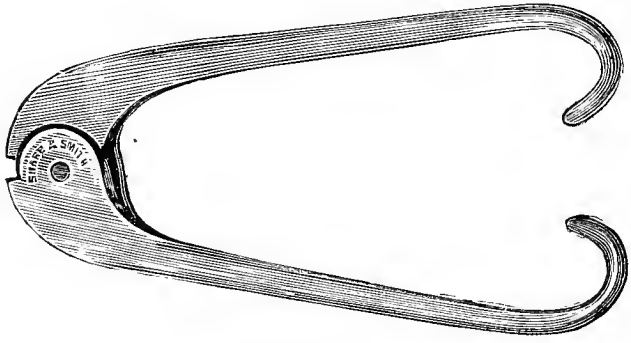
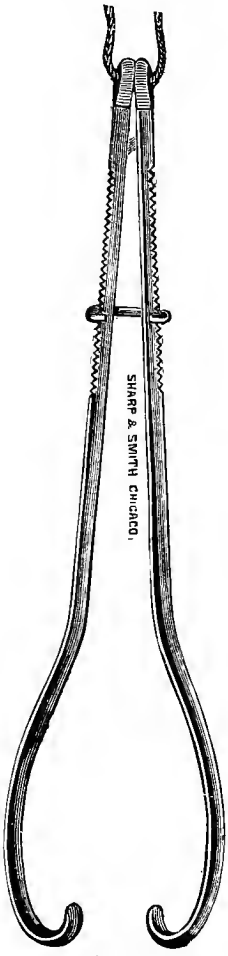


Fig. 661.

OBSTETRICAL AND PARTURITION INSTRUMENTS.



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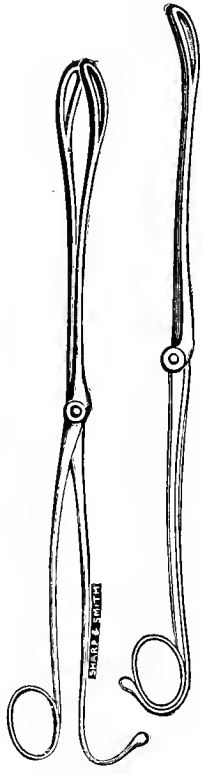

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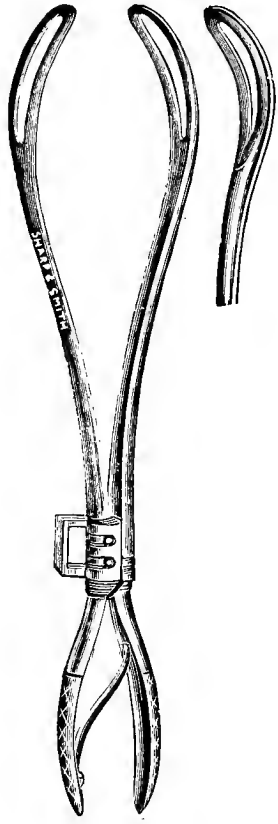


Fig. 664.

		Net Prices.
Fig. 657	Embryotomy Knife, French Pattern	$ 3 00
" 658	" " " " closed	3 00
" 659	" " Ring	1 25
	" " Curved Blade	1 25
" 660	Articulating Blunt Hook	3 00
" 661	Double " "	2 25
" 662	Gunther's Parturition Forceps	12 00
" 663	Bitch Forceps, Revolving Blade	4 50
" 664	" " (best) " "	9 00
	Rubber Parturition Sleeves, per pair	1 50

OBSTETRICAL AND PARTURITION INSTRUMENTS.

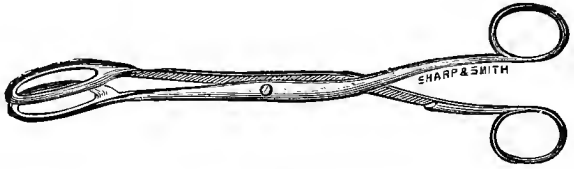


Fig. 665.

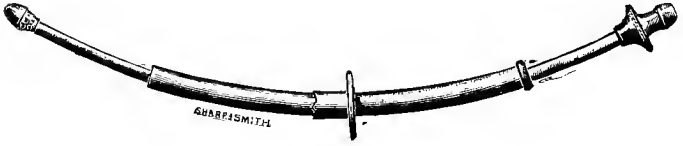


Fig. 666.

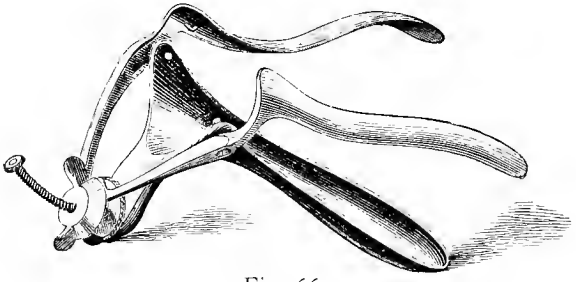


Fig. 667.

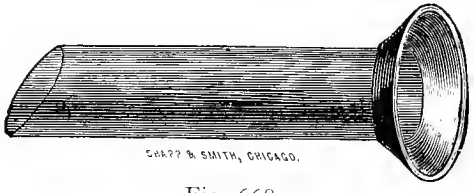


Fig. 668.

Fig. 669.

OBSTETRICAL AND PARTURITION INSTRUMENTS.

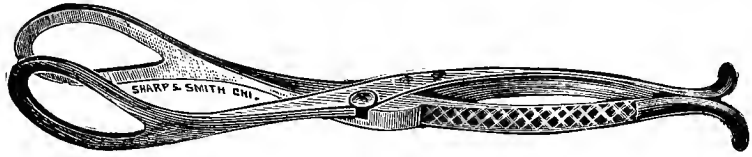


Fig. 670.

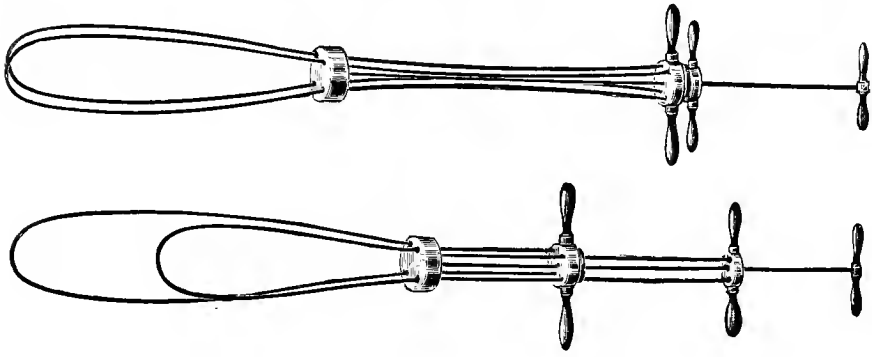


Fig. 671.

A NEW PIG EXTRACTING FORCEPS.

PATENTED SEPTEMBER 24, 1889.

How to Use the Shearburn Pig Extractor.

Insert the instrument, both loops at once, on both sides of the young pig. Then turn the loops one-quarter round so that one of the loops will appear below the head and the other above the head; then shove down the slide, pull steady, and thus relieve the sow of her young. In case the sow is small, so that both loops cannot be inserted at once, insert one at a time, then operate as above.

This instrument can be used without danger of injury to the sow or pig.

		Net Prices.
Fig. 665	Bitch Forceps	$ 3 75
" 666	Uterine Douche	5 00
" 667	Wheat's Vaginal Speculum	15 00
	Bivalve " "	9 00
" 668	Cylindrical "	3 50
" 669	Canulated Uterine Dilator	12 00
" 670	Pig Extracting Forceps	4 00
" 671	Shearburn Pig Extracting Forceps	2 00

NOSE AND THROAT INSTRUMENTS.

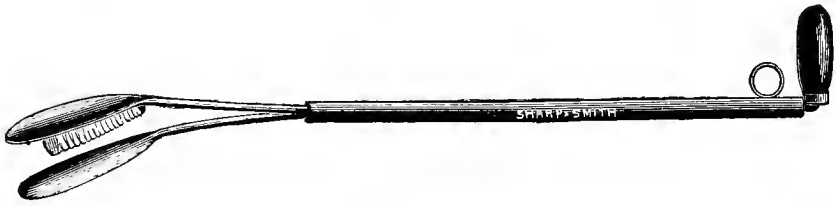


Fig. 700.

The above cut represents the "Perfection" Capsule Gun which is used for the administration of boluses or capsules. By the aid of this instrument, this method of giving medicine possesses many advantages over that of drenching.

At the end of the instrument are two spoons shaped for grasping the capsule—these are attached to small steel rods which are joined near the handle—over these a cylinder plays, closing or opening the spoons as it is moved up or down.

Placing the capsule or bolus of any size in the spoons, and pushing the cylinder up toward them, closes the spoons firmly against the capsule. Holding the tongue out with the left hand, the instrument thus loaded is slipped up between the molars and the bolus is pushed out on the back part of the tongue and swallowed.

NOSE AND THROAT INSTRUMENTS.

Fig. 701.

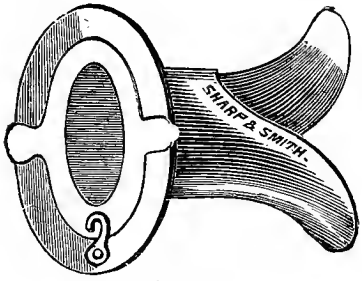


Fig. 702.

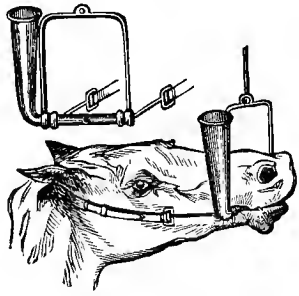


Fig. 704.

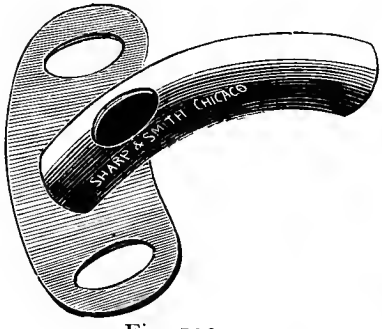


Fig. 703.

Fig. 705.

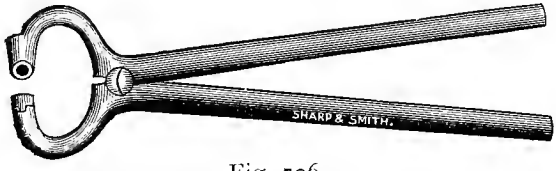


Fig. 706.

See page 81 for prices.

NOSE AND THROAT INSTRUMENTS.

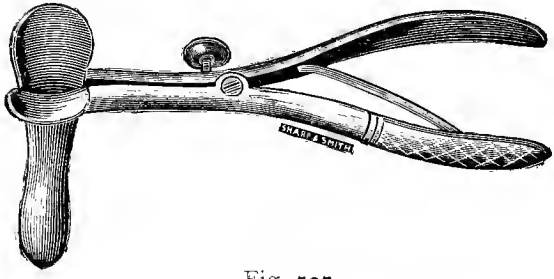


Fig. 707.

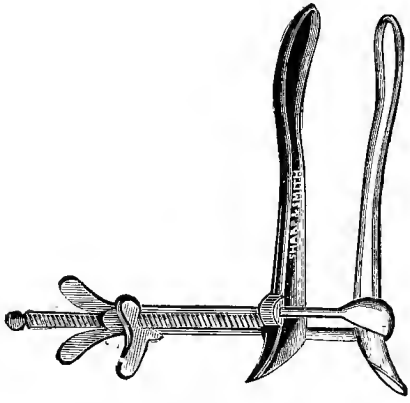


Fig. 708.

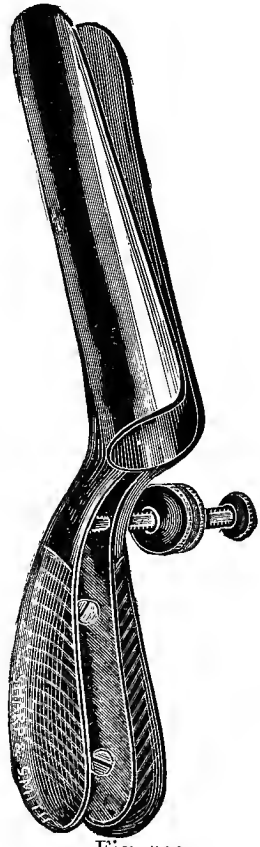


Fig. 709.

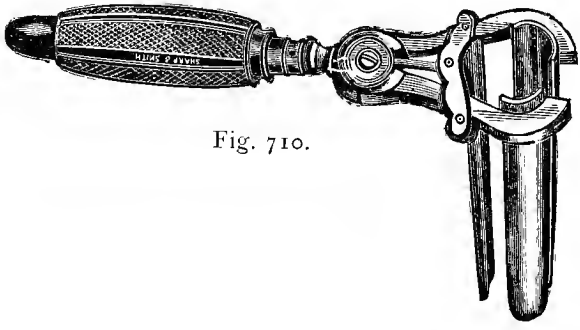


Fig. 710.

NOSE AND THROAT INSTRUMENTS.

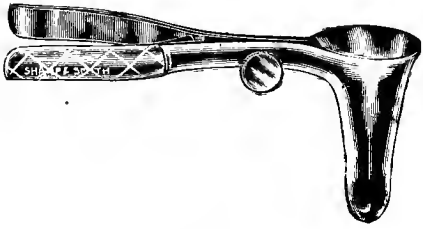


Fig. 712.

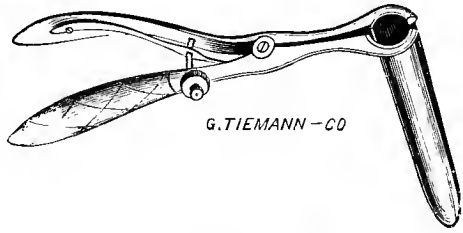


Fig. 711.

Fig. 713.

		Net Prices.
Fig. 700	Perfection Balling Gun (see page 78)	$ 6 00
" 701	Arnold's " " (see page 79)	6 00
	Plain " "	2 25
" 702	Self-Retaining Trachea Tube	3 75
" 703	Metal " "	2 00
" 703	Hard Rubber " "	1 75
" 704	Burton's Drenching Bit, Nickel Plated	4 50
" 704	" " " Plain	2 75
" 705	Japanned " Horn	85
" 705	Nickel Plated Drenching Horn	1 85
" 706	Arnold's Nasal Punch	5 25
" 707	Holland's Nasal Speculum	3 50
" 708	Parallel Nasal Speculum	7 50
" 709	Bivalve " "	3 00
" 710	Trivalve " "	12 00
" 711	Bivalve (light) Nasal Speculum	2 50
" 712	S. & S. Bivalve " "	3 50
" 713	Cattle Probang, Cane Jointed	3 00
" 713	" " " Celluloid	4 50
	" " 4 feet long	4 50
	" " 6 " "	6 00
	" " 6 " " with stylet	7 00

NOSE AND THROAT INSTRUMENTS.

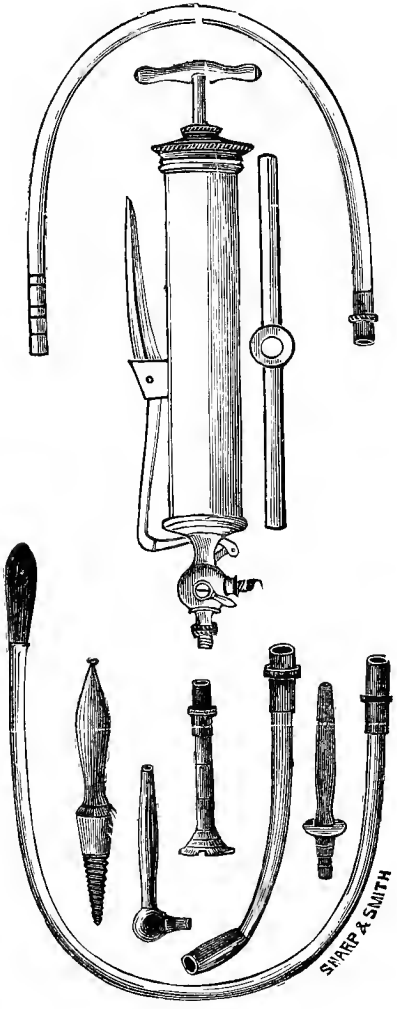


Fig. 714.

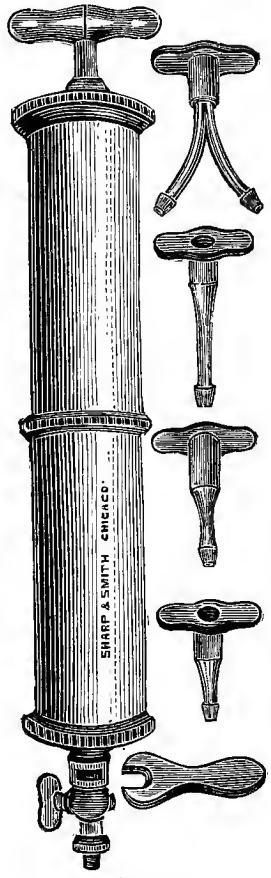


Fig. 716.

		Net Prices.
Fig. 714	Reed's Stomach Pump	$ 18 00
" 715	S. & S. " " in case	12 00
" 715	" " " without case	10 00
" 716	Anatomical Syringe	26 00
" 717	Antiseptic Steam Atomizer	11 25
Tubing for Injection Pumps, extra heavy, per foot		40

NOSE AND THROAT INSTRUMENTS.

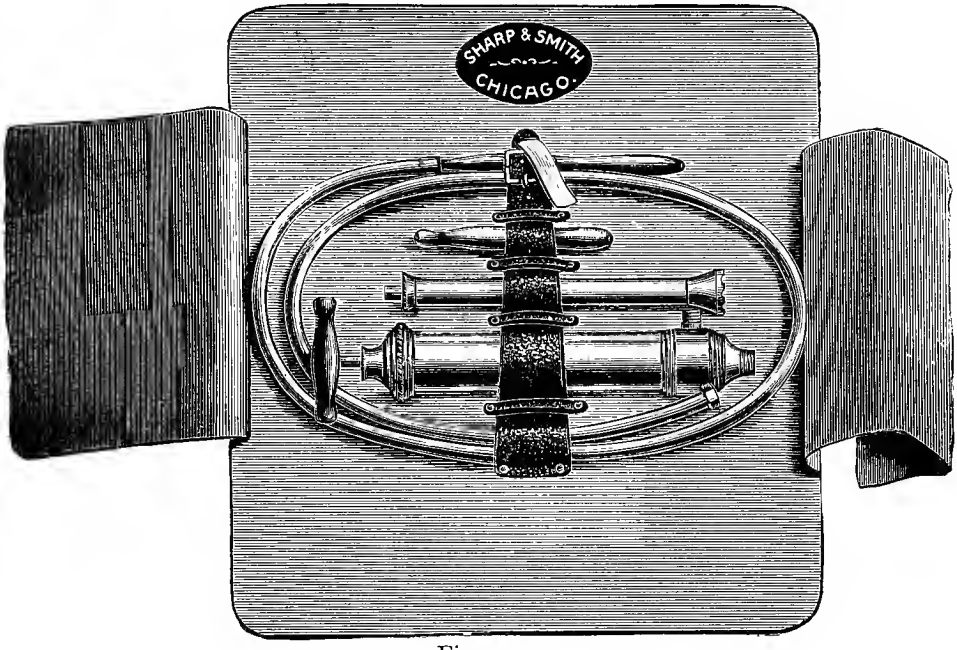


Fig. 715.

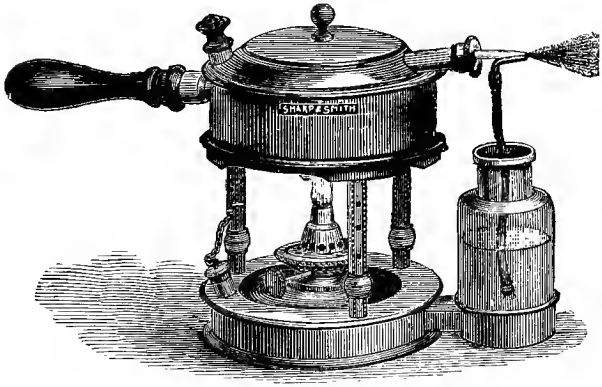


Fig. 717.

TEAT INSTRUMENTS.

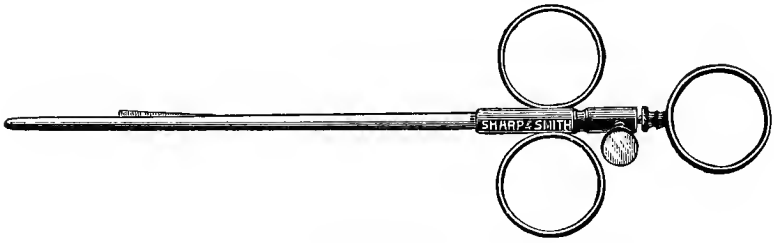


Fig. 750.

Fig. 751.

Fig. 752.

Fig. 753.

Fig. 754.

		Net Prices.
Fig 750	Teat Bistoury	$ 3 00
" 751	" "	5 25
" 752	" Slitter	2 00
" 753	Milking Tube, Plated	30
" 753	" " Silver	50
" 754	" " Self-retaining, Plated	45
" 754	" " " Silver	70

DIAGNOSTIC INSTRUMENTS.

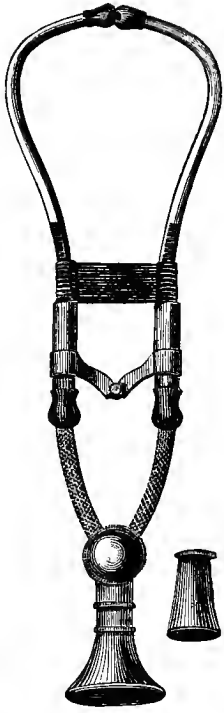


Fig. 800.

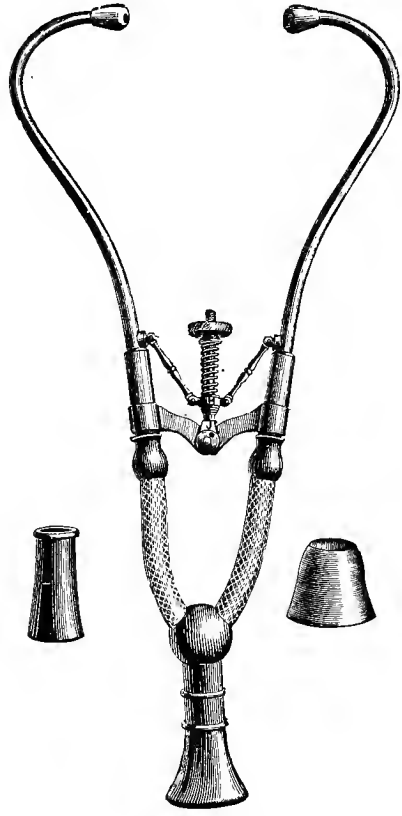


Fig. 801.

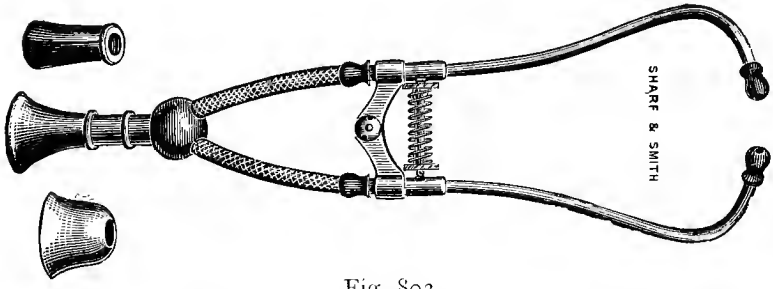


Fig. 802.

For prices see page 87.

DIAGNOSTIC INSTRUMENTS.

The instrument here presented is the result of considerable experimenting and differs from those heretofore used in many particulars which are of great importance in a good instrument, though in outward appearance it is very much like other stethoscopes. The points of dissimilarity are those which by having many different kinds made, are the essentials in a perfect instrument.

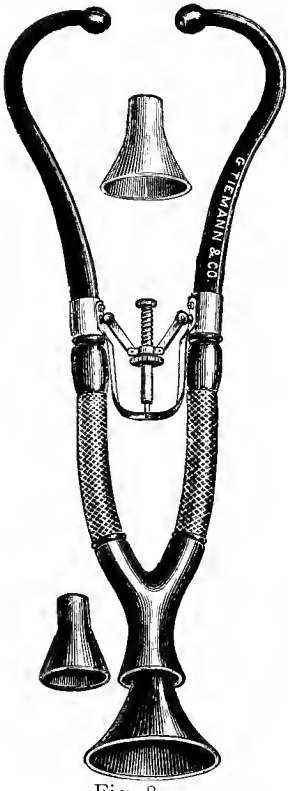


Fig. 803.

1. *As to the quality of sound.*—The material of which an instrument is made determines the character of the sound obtained. A stethoscope made wholly of metal or with metal tubes only, gives a metallic quality to all the sounds transmitted, whose pitch seems to be elevated and thereby unnatural. This perversion of natural sounds is not obtained in any such degree by gutta-percha, wood or celluloid. In this instrument is chosen hard rubber for the arms instead of the metal heretofore used in most stethoscopes, and I have had the flexible tubes made so as to give a smooth inner surface to the coiled wire, which holds them in shape. We have succeeded in embedding the wire between two tubes of soft rubber and then vulcanizing them together. This arrangement gives nearly as natural effects as does a stethoscope made wholly of hard rubber, which of course would be inflexible and unyielding.

2. *As to the form of the instrument.*—The size of the canal in this instrument is largest at the attachment of the bell and gradually decreases in diameter to the ear ends, and is in imitation of those trumpets or conversation tubes which best serve the purposes of deaf persons, owing to their property of concentrating and conducting the waves of sound, and forms one of the principal advantages of the instrument.

The larger sized tube used in this stethoscope is an especial advantage to those physicians who have slight defects in hearing, and will be preferred, we believe, by the great majority of the profession. The ear-tips are shaped with particular reference to the direction of the canal in the arms of the stethoscope and have the lower and forward edges bulged to such an extent as to fill in spaces behind the tragi, so that it throws the tube openings in the direction of the auditory canals. The ear-tips are crowded into the external auditory canal as firmly as can be comfortably done by means of a rather stiff spring, which brings the arms of the instrument together, and which is supplied with a set screw so that it can be regulated to suit the listener.

All the joints, bells, tubes and arms are constructed on the principle of a slightly conical tube, each portion fitting evenly and tightly into the other, and the fastenings of the flexible portion to the gutta-percha are so perfect that there is no interruption in the transmission of sounds from the chest to the ear.

DIAGNOSTIC INSTRUMENTS.

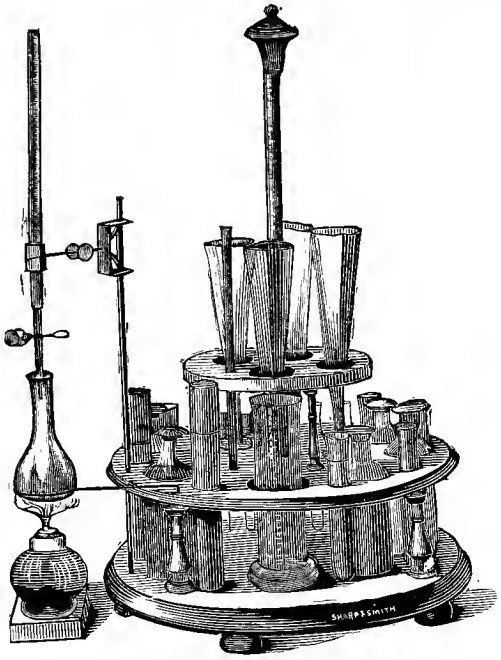


Fig. 804.

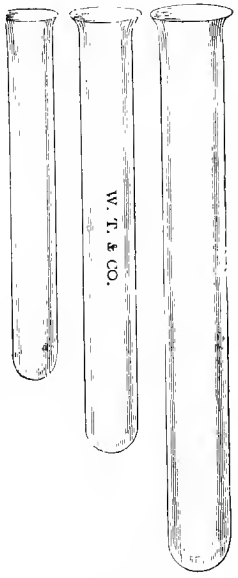


Fig. 805.

Fig. 804 Roberts' Urine Test Apparatus (improved by Lewis).

Consists of the following parts:

1 Set Neubaur's urinometers with two test glasses.
4 Urine glasses.
6 Test tubes.
1 Alcohol lamp.
5 Bottles with pure reagents.
1 Burette with holder.
3 Pipettes and 3 stirring rods.
1 Graduate.
1 Flask with ring support for same.

The whole on a revolving etagere of black walnut, etc., with printed description.

		Net Prices.
Fig. 800	Camman's Regular Stethoscope	$ 2 00
" 801	Knight's Improved "	4 50
" 802	Sharp & Smith's Set-screw "	3 75
" 803	Dennison's "	9 00
" 804	Roberts' Set of Urine Test Apparatus	25 00
" 805	Test Tubes, 6-inch, per dozen	35
" 805	5 " " "	30
" 805	4 " " "	25
" 805	3 " " "	20
" 805	8 " " "	50

DIAGNOSTIC INSTRUMENTS.

Fig. 806.

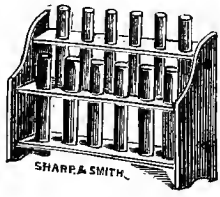


Fig. 807.

Fig. 807-A.

SELF-REGISTERING FEVER THERMOMETERS.

With Absolutely Indestructible Register.

The great improvement made in self registering fever Thermometers, by forming an indestructible register, has within the past year or two, practically driven from the market the old style of fever Thermometer, which registered by means of a piece of mercury detached and separated from the main column by a small air space. The indestructible register is formed by a very small contraction of the caliber near the bulb, which allows the column to rise, but upon contraction of the mercury the column breaks at the contraction in the caliber, thus leaving that part of the column above it a stationary register, until shaken down by the operator. *We particularly recommend this Thermometer to the trade.* All of our clinical Thermometers are made from seasoned tubes, and put up in hard rubber cases. Certificates from the Thermometric Bureau of Yale College will be furnished if desired.

Fig. 808.

A Few Remarks about Clinical Thermometers.

The normal temperature of the human body, at completely sheltered parts of its surface, amounts to 98.4° Fahr., or a few tenths more or less, and a rising above 99.5° Fahr., or a depression below 97.3° Fahr., are sure signs of some kind of ailment, if such increase or decrease is persistent.

DIAGNOSTIC INSTRUMENTS.

The average temperature of the trunk of the body in the tropics is nearly one degree higher than in temperate climates.

The increase of the temperature above 99° F., as measured by the thermometer, is the best index of the amount of fever present in any disease.

The temperature of the body in disease is much more readily and rapidly influenced than either the pulse or respiration. The co-relation of the pulse, respiration and temperature is of the utmost importance to be known in many diseases. For example, in pneumonia, if the mean of the temperature is not above 104° Fahr., and that of the pulse is not above 120 in a minute, and the mean of the respiration not over 40 in same time, the case must be considered a slight one, and if the patient is healthy otherwise, he will surely commence to get well in from eight to twelve days, without any medical treatment beyond attention to diet and rest.

Each disease which runs a definite course (scarlet fever, measles, small pox, typhus, typhoid, rheumatism, acute phthisis, etc., etc.,) has a characteristic and distinctive range of temperature.

The necessity of using a reliable thermometer is, therefore, of the utmost importance.

Fig. 809.

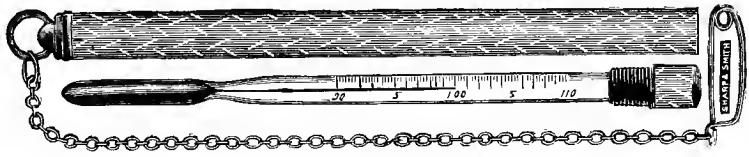


Fig. 810.

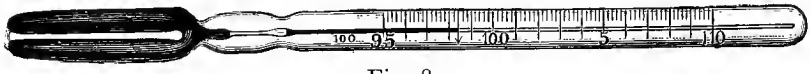


Fig. 811.

		Net Prices.
Fig. 806	Best English Urinometer	$ 90
" 807	Rack for Holding Test Tubes	75
" 807-A	Test Tube Holder	25
" 808	Sharp & Smith's Indestructible Index Thermometer	1 25
" 809	" " " Index one minute Thermometer	1 50
" 810	" " " " Thermometer in gilt case and chain	1 75
" 811	Patent Double Bulb Indestructible Index Thermometer	1 50
	Hicks' Plain " " "	1 50
	" Lens Front " " "	2 75
	" " " one minute " "	3 50
	Colored Bulb Index Thermometer	1 50

FIRING INSTRUMENTS.

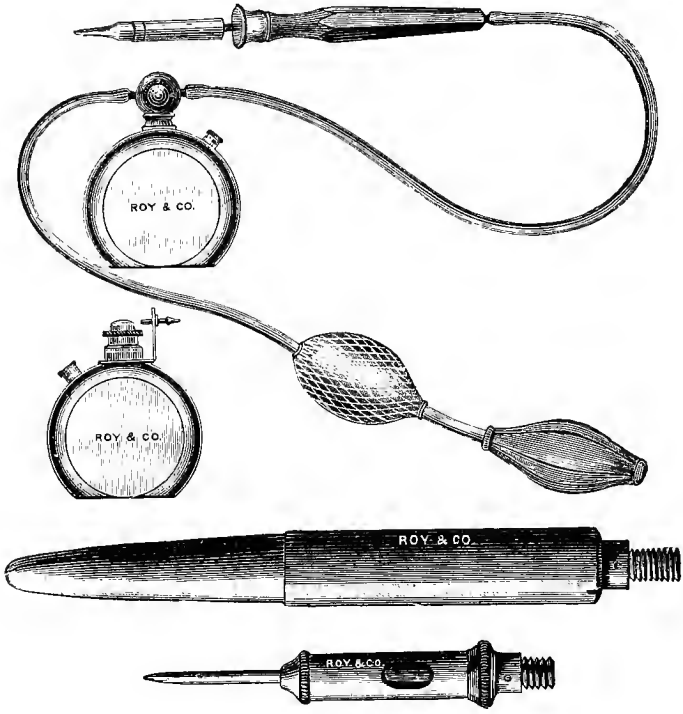


Fig. 850.

PAQUELIN'S THERMO-CAUTERY.

Paquelin's Cautery is an instrument for the production of permanent and controllable heat, and with slight radiation. This admirable instrument (without rival) is adapted to all the needs of actual cautery owing to the variety of its forms. It occupies a privileged rank among the principal instruments indispensable in surgery where the use of cautery by fire is indicated.

The use of this instrument is derived from the fact that when platinum, as well as several other metals, slightly heated, is brought into contact with certain hydrocarbon vapors, it gradually becomes incandescent, and retains its heat as the vapors are supplied.

This apparatus can be raised to the highest temperature, and passes through liquids and organic tissues without losing its activity. It works steadily, is easily handled, compact and portable, including all accessories. The hydrocarbon which supplies it is easily obtained, and the cost of working it does not exceed one cent per five hours. Price $35.00.

TIRING INSTRUMENTS.

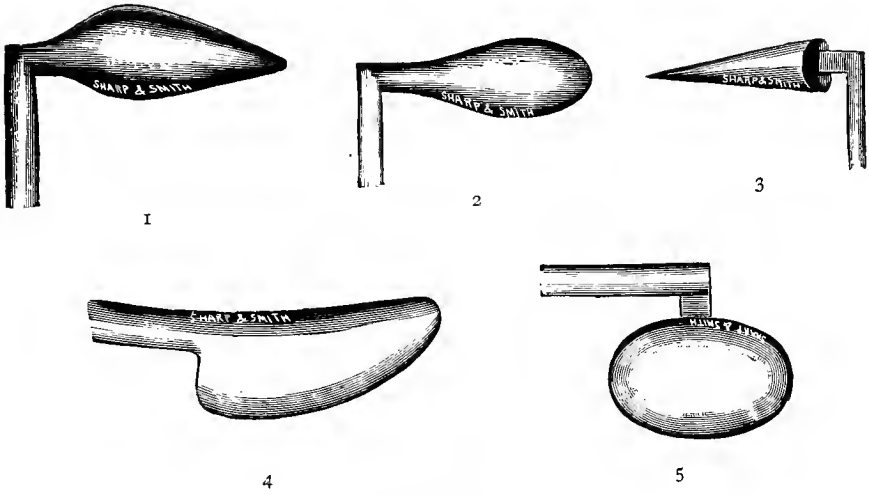


Fig. 851.

		Net Prices.
Fig. 850	Paquelin's Thermo Cautery	$ 35 00
" 851	Tiring Irons, 1 to 5, plain, each	75
	Universal Handle for above, each	1 25

NOTICE.

We wish to inform the Profession that it is our desire to make our instruments as practical in shape as possible, and any improvements or suggestions sent us will be carefully considered with a view to supplying the Profession with the latest and best.

BLEEDING INSTRUMENTS.

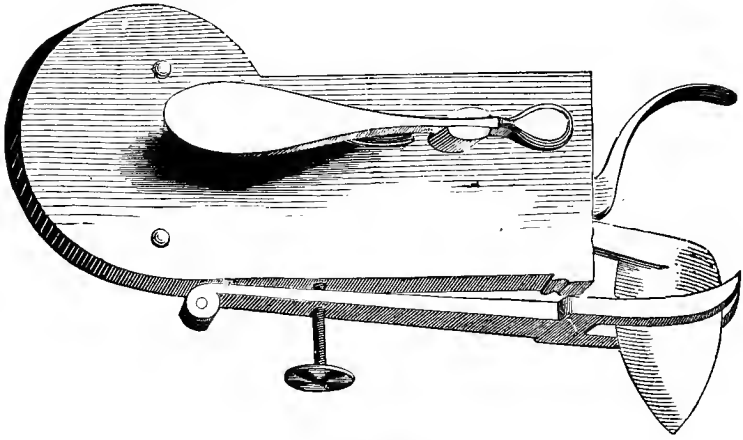


Fig. 852.

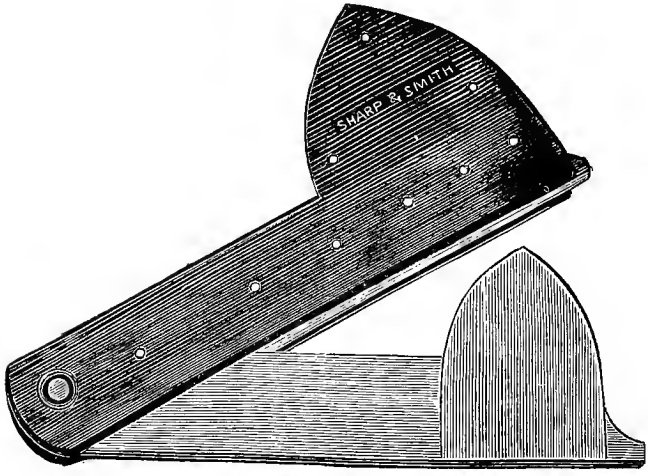


Fig. 853.

		Net Prices.
Fig. 852	Spring Lancet, guarded	$ 2 25
	" " plain	1 75
	Extra Blades	40
" 853	Brass Fleams, plain, 2 Blades	65
	" " " 3 "	75
	Horn " " 1 "	1 25
	" " " 2 "	1 50
	" " " 3 "	1 75

HYPODERMIC SYRINGES AND ASPIRATORS.

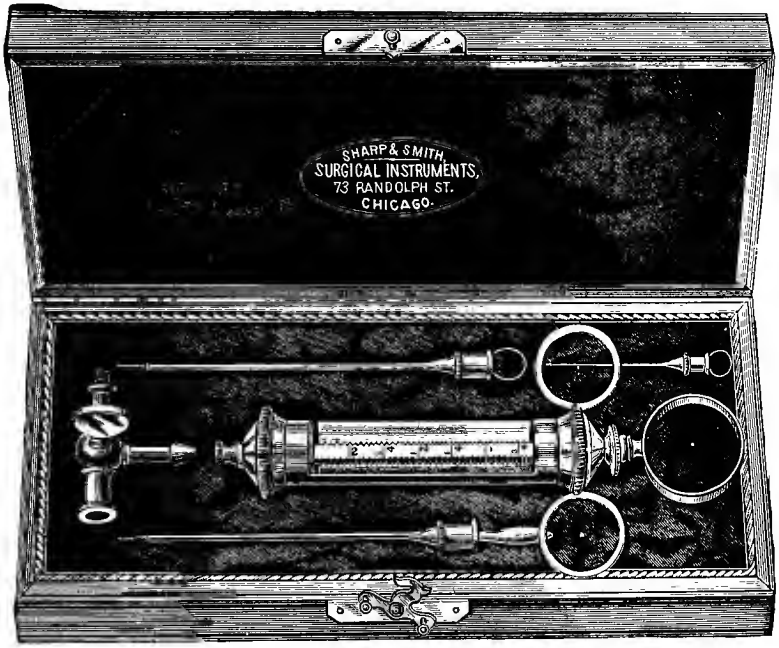


Fig. 900.

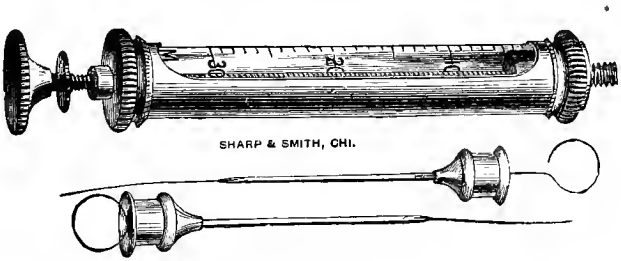


Fig. 901.

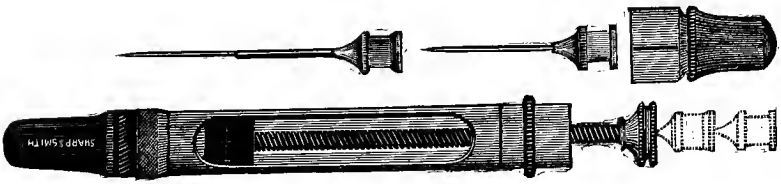


Fig. 902.

HYPODERMIC SYRINGES AND ASPIRATORS.

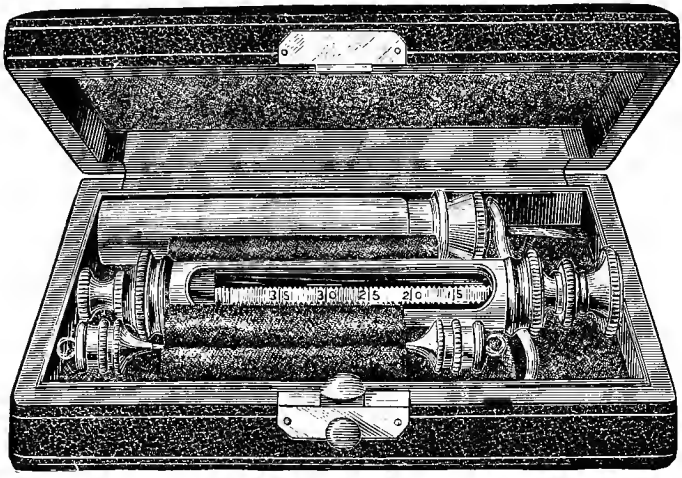


Fig. 903.

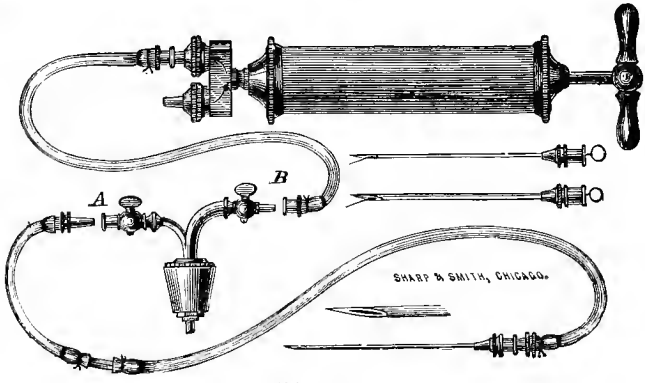


Fig. 904.

		Net Prices.
Fig. 900	Combined Aspirator and Hypodermic Syringe	$ 4 00
" 901	Hypodermic Syringe, No. 3	1 50
" 902	" " Vest Pocket	2 00
" 903	" " Patent Oil Chamber	3 50
" 904	Codman & Shurtleff's Aspirator, No. 1, with Bottle in Walnut Case	12 00
	Codman & Shurtleff's Aspirator, No. 2, without Bottle, Morocco Case, with Stopcock to fit any Bottle	10 00

NOTICE.

In ordering Needles for Syringes, it is better to send us the Syringe on which they are to fit, or an old Needle of the same kind, so as to insure an accurate fit.

SYRINGES.

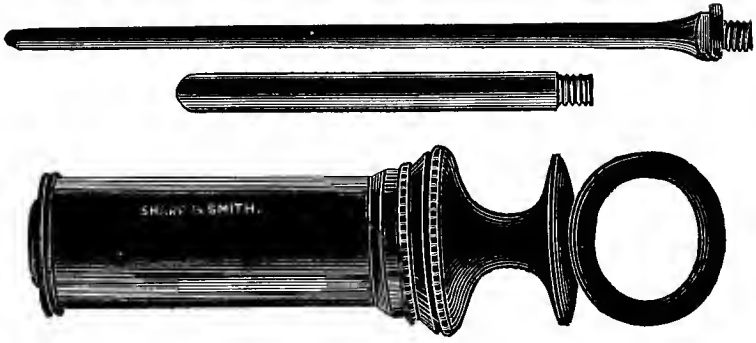


Fig. 905.

Fig. 906.

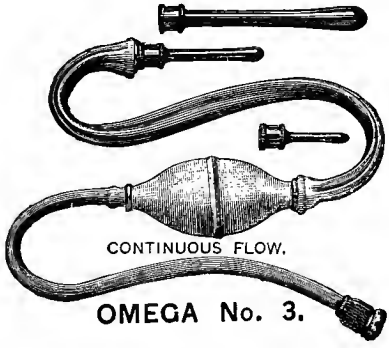


Fig. 907.

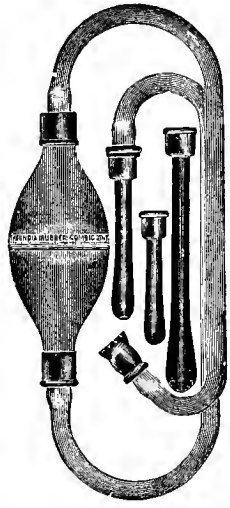


Fig. 908.

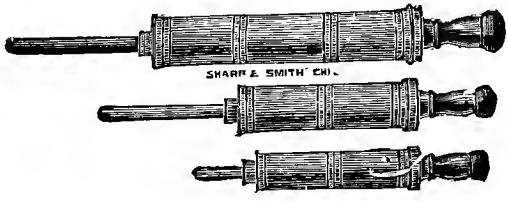


Fig. 910.

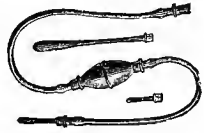


Fig. 909.

SYRINGES.

		Net Prices.
Fig. 905	Quittor Syringe, 2 pipe, Hard Rubber	$ 1 50
	" " 2 " Metal	2 50
	Hard Rubber, Medium Syringes, ¾ oz., each	50
	" " " " 1 " "	60
	" " " " 2 " "	65
	" " " " 3 " "	75
	" " " " 6 " "	1 00
	" " " " 12 " "	1 50
	" " Injection " 24 " "	3 75
" 906	Fine Brass " " 20 " "	5 00
" 907	Omega Syringe, No. 3, continuous flow	1 50
" 908	Goodyear Crown, No. 513	75
" 909	Magnum, No. 2	50
" 910	Injection Syringes, Metal, 16 oz., each	1 00
" 910	" " " 24 " "	2 00
" 910	" " " 36 " "	2 50
" 910	" " " 48 " "	3 00

NOTICE.

We make, nickel plate and repair all kinds of instruments at the shortest possible notice. All instruments of our make guaranteed free from flaws and imperfections. Instruments proving defective will be cheerfully exchanged.

DISSECTING AND POST-MORTEM INSTRUMENTS.

Fig. 911.

Fig. 912.

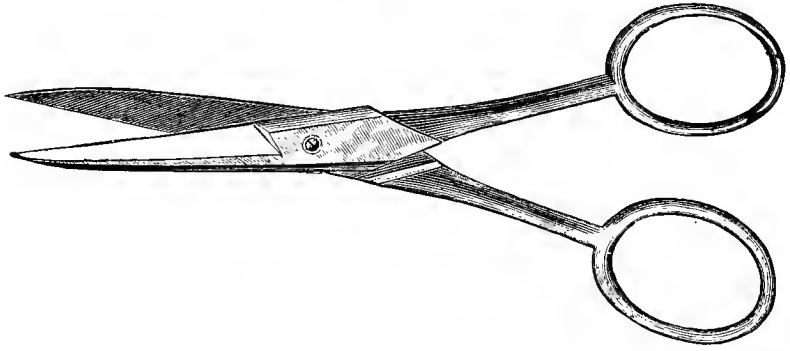


Fig. 913.

Fig. 914.

Fig. 915.

Fig. 916.

Fig. 917.

DISSECTING AND POST-MORTEM INSTRUMENTS.

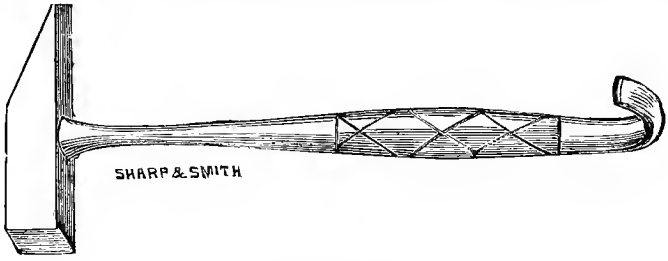


Fig. 918.

Fig. 919.

Fig. 920.

Fig. 921.

		Net Prices.
Fig. 911	Cartilage Knife, all Steel	$0 60
" 911	" " Ebony Handle, heavy	1 50
" 912	Ebony Handle Scalpel	45
" 912	Ivory " "	75
	Ebony " Tenaculum	45
	Ivory " "	75
" 913	Dissecting Scissors, straight	75
	" " curved	90
" 914	" Chain and Hooks, per set	25
" 915	" Forceps	50
" 916	Plain Chisels	35
" 917	Lifting Back Saw	1 50
" 918	Steel Mallet	1 75
" 919	Costetome Chisels	2 50
" 920	Lead Mallet	1 50
" 921	Bone Gouge	1 25

DISSECTING AND POST-MORTEM CASES.

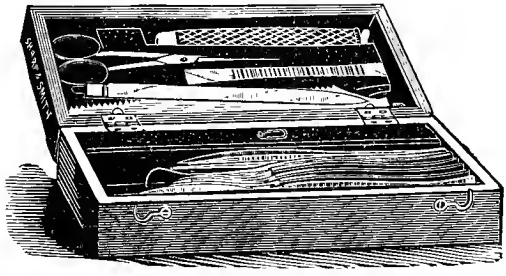


Fig. 922.

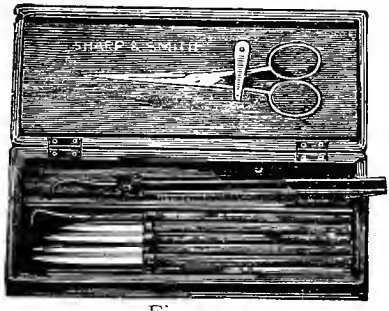


Fig. 924.

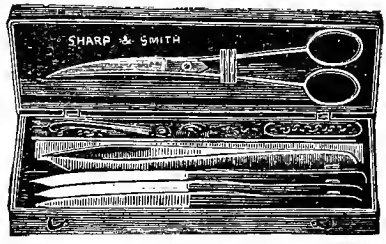


Fig. 923.

		Net Prices.
Fig. 922	Finnel's Post Mortem Set	$ 9 50
" 923	Dissecting Case, No. 1	2 25
" 924	" " No. 2	3 20
	" " No. 3	3 65
	" " No. 4	4 10

Fig. 922 Finnel's Post-Mortem Case.

CONTAINS:

1 Amputating Knife.
1 Handle to fit same.
1 Steel Cartilage Knife.
1 Pair Straight Scissors.
1 German Silver Blowpipe.
1 Plain Chisel.
1 Amputating Saw.
3 Ebony Handled Scalpels.
1 Ebony Handled Tenaculum.
1 Set Chain and Hooks.
1 Dissecting Forceps.
Needles and Thread.

In polished Wood Case, Velvet lined. Lock and Key.

DISSECTING AND POST-MORTEM CASES.

Fig. 923 Dissecting Case No. 1.

CONTAINS:

1 Scalpel, large.
1 Scalpel, medium.
1 Tenaculum.
1 Blowpipe.
1 Cartilage Knife.
1 Pair Scissors.
1 Pair Forceps.
1 Set Chain and Hooks.

In polished Wood Case.

Fig. 924 Dissecting Case No. 2.

CONTAINS:

1 Scalpel, large.
1 Scalpel, medium.
1 Scalpel, small.
1 Tenaculum.
1 Blowpipe.
1 Cartilage Knife.
1 Pair Scissors.
1 Pair Forceps.
1 Set Chain and Hooks.

In polished Wood Case.

Dissecting Case No. 3.

CONTAINS:

2 Scalpels, large.
1 Scalpel, medium.
1 Scalpel, small.
1 Tenaculum.
1 Blowpipe.
1 Cartilage Knife.
1 Pair Scissors.
1 Pair Forceps.
1 Set Chain and Hooks.

In polished Wood Case.

Dissecting Case No. 4.

CONTAINS:

2 Scalpels, large.
2 Scalpels, medium.
1 Scalpel, small.
1 Tenaculum.
1 Blowpipe.
1 Cartilage Knife.
1 Pair Scissors.
1 Pair Forceps.
1 Set Chain and Hooks.

In polished Wood Case.

HORSE AND MARE CATHETERS.

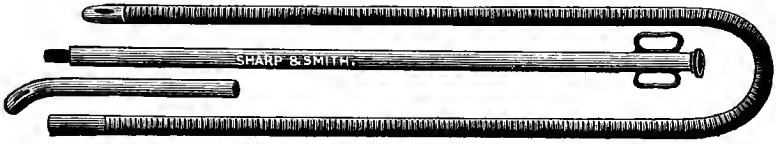


Fig. 925.

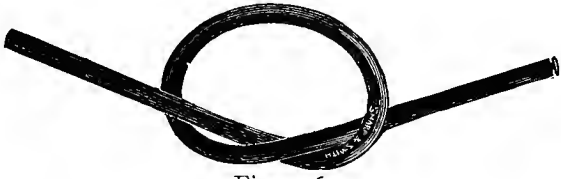


Fig. 926.

Fig. 927.

		Net Prices.
Fig. 925	Combined Horse and Mare Catheter	$ 4 00
" 926	Horse Catheter, best	2 00
	" " 2d quality	1 75
	" " common	1 50
	" " Linen with Stylet	2 00
	" " best English, Metal end and Stylet	4 00
	" " Soft Rubber	2 50
" 927	Metal Mare Catheter	1 50
	" " " Jointed	2 00
	Colt Catheters	1 50
	" " Linen, best	2 00

NOTICE.

Customers will be advised by circulars of all New Instruments that may be added to our stock.

EYE INSTRUMENTS.

Fig. 950.

Case for Loring's Ophthalmoscopes. This case is included in price of Ophthalmoscopes. Handles and two Lenses are also included.

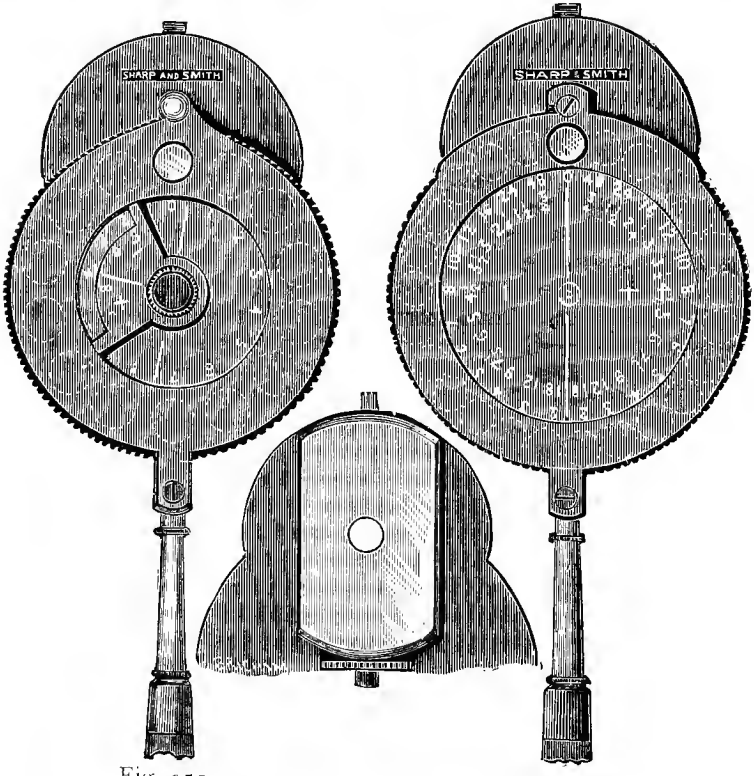


Fig. 951. BACK VIEW. Fig. 952.

EYE INSTRUMENTS.

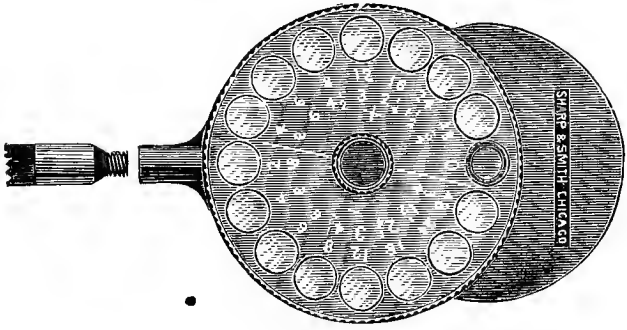


Fig. 953.

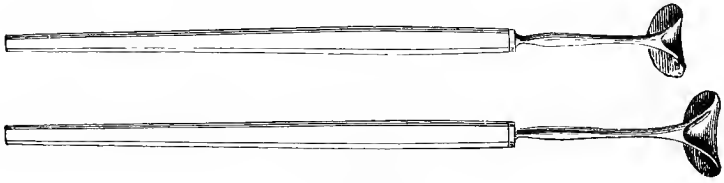


Fig. 954.

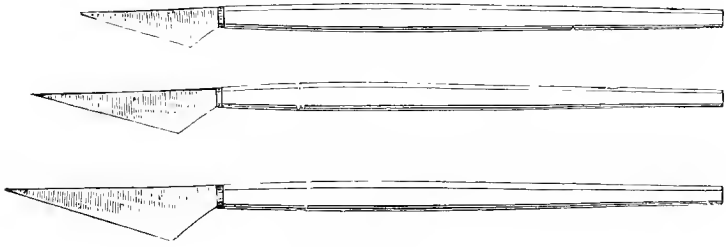


Fig. 955.

		Net Prices.
Fig. 950	Case for Loring's Ophthalmoscope	
" 951	Loring's Double Disk "	$30 00
" 952	" Single " "	20 00
" 953	" 15 Lens "	15 00
	" 12 " "	12 00
	" 7 " "	6 50
" 954	Desmarres Eyelid Retractors, each	1 25
" 955	Beers' Cataract Knives, each	1 10

EYE INSTRUMENTS.

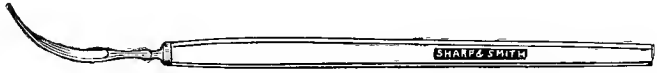


Fig. 956.

Fig. 957.

Fig, 958.

Fig. 959.

Fig. 960.

Fig. 961.

Fig. 962.

EYE INSTRUMENTS.

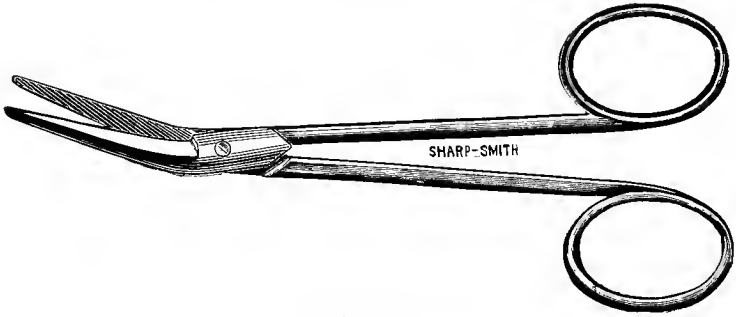


Fig. 963.

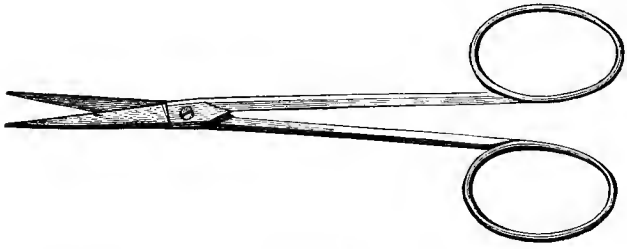


Fig. 964.

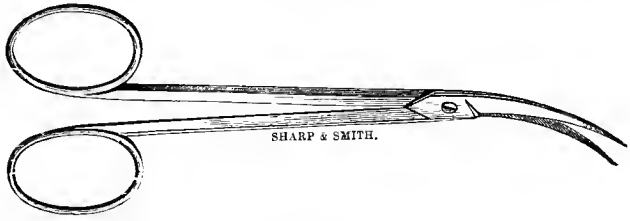


Fig. 965.

		Net Prices
Fig. 956	Bowman's Curved Knife	$ 1 25
" 957	Graefe's Cataract "	1 10
" 958	Eye Scalpel	1 10
" 959	Levis Needle with Eye	1 20
" 960	Dix's Spud	1 10
" 961	Jaeger's Angular Keratome	1 25
" 962	" Straight "	1 10
" 963	Angular Eye Scissors	1 25
" 964	Straight " "	1 15
" 965	Curved or Flat Eye Scissors	1 15

EYE INSTRUMENTS.

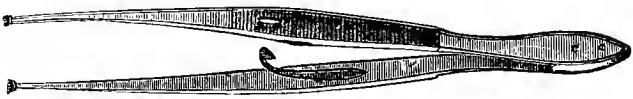


Fig. 966.

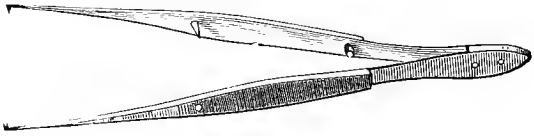


Fig. 967.

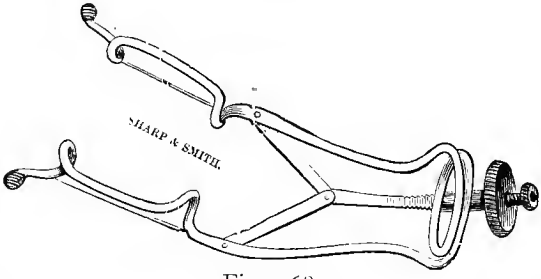


Fig. 968.

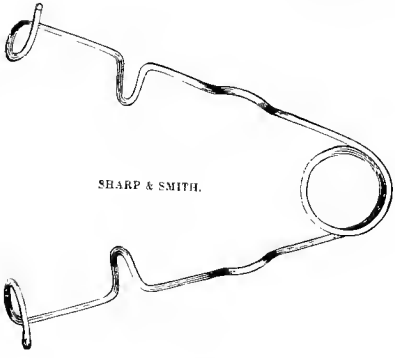


Fig. 969.

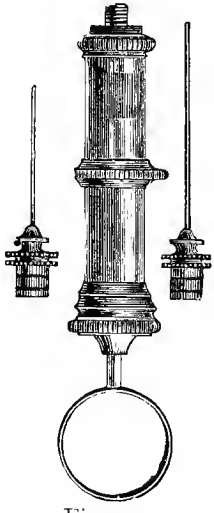


Fig. 971.

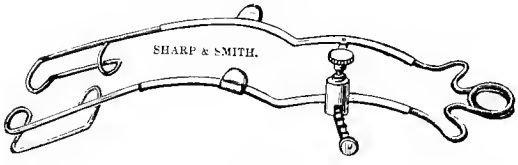


Fig. 970.

EYE INSTRUMENTS.

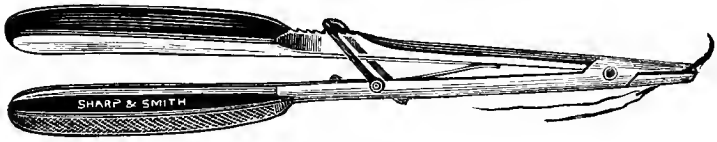


Fig. 972.

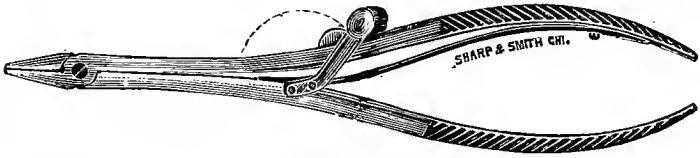


Fig. 973.

Fig. 974.

		Net Prices.
Fig. 966	Græfe's Fixation Forceps, spring catch	$1 50
" 967	Straight Iris "	1 10
" 967	Curved " "	1 10
" 968	Noyes' N. P. Eye Speculum	2 50
" 969	Plain Wire " "	75
" 970	Græfe's " "	2 50
" 971	Agnew's Lachrymal Syringe	3 75
" 972	Russian Needle Holder	3 00
" 973	Reiner's " "	3 00
" 974	French " "	3 50

All our goods warranted in every particular. Instruments proving unsatisfactory cheerfully exchanged.

MEDICINE CASES.

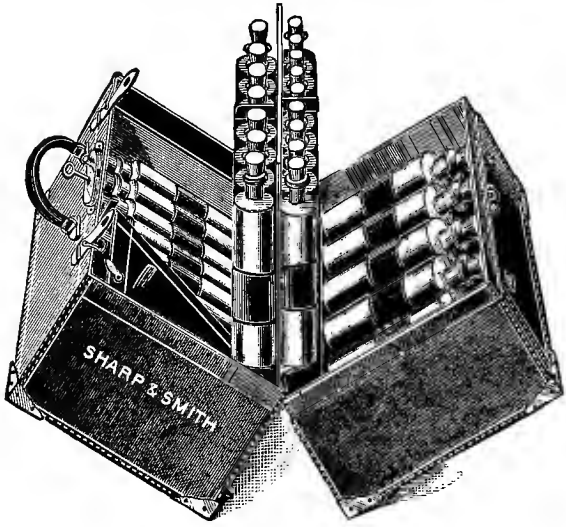


Fig. 1000.

Medicine Case No. 1.

CONTAINS:

5 8-oz., 7 4-oz., 9 2-oz , 10 3-dram Bottles.

Russet Leather, nickel trimmed.....$12 00
Black grain Leather..... 11 00

Two of the 8-oz. bottles are glass stoppered.

Fig. 1000 Medicine Case No. 2.

CONTAINS:

10 8-oz., 7 4-oz., 6 2-oz., 12 3 dram Bottles.

Russet Leather, nickel trimmed.....$14 00
Black grain Leather..... 13 00

Four of the 8-oz. Bottles are glass stoppered.

Fig. 1001 Medicine Case No. 3.

CONTAINS:

12 2½ oz. Bottles, 12 1-oz. Bottles.

Russet Leather, nickel trimmed.....$11 00
Black Leather, " " 10 00

With box for instruments, etc.

MEDICINE CASE.

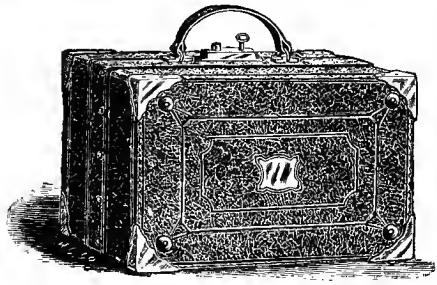


Fig. 1001.

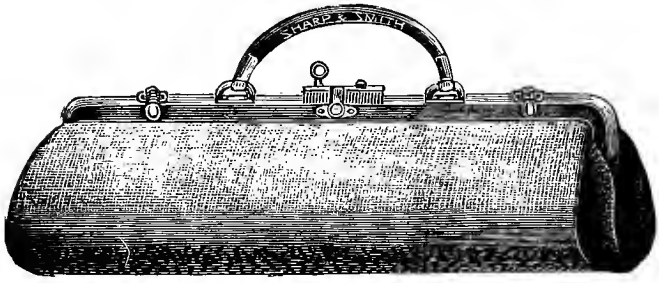


Fig. 1002.

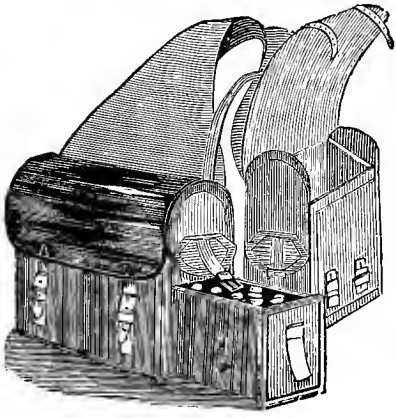


Fig. 1003.

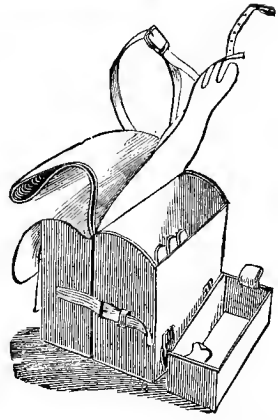


Fig. 1004.

		Net Prices
Fig. 1002	Instrument Bag, 16 in., black or brown	$ 3 50
"	" " 15 " " "	3 25
" 1002	" " 14 " " "	3 00
" 1003	Saddle "	10 60
" 1004	" " plain	7 25

TRUSSES AND BANDAGES.

Dr. L. L. Conkey's Bog Spavin and Thorough Pin Truss.

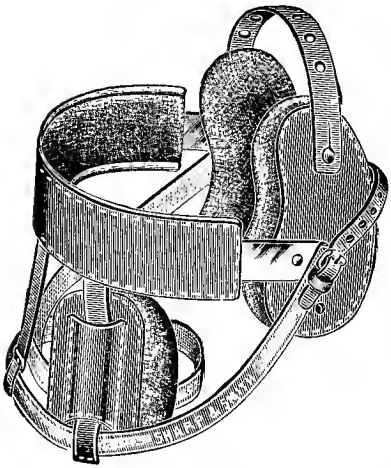


Fig. 1006.

This Truss is superior to any ev yet offered to the profession. T Thorough Pin Pressure is Automat and diffused over a large surface, that it does not gall or chafe the le The Bog Spavin pressure is al Automatic, having a charged metall pad covered with a medicated spon which acts as and is a powerful astrin ent, the effects of which are very bene cial. This Truss is the result of yea of experience, and is so simple in construction that any novice can app it. It fits nicely, and the animal c run on pasture while wearing it. Th fact alone commends the Conkey Tru above all others, as it is a well authenticated fact that exercise assis in the removal of swelling or enlargements from any part of the body; th is especially true of the legs, hence exercise is of great moment in t treatment of this heretofore insurmountable difficulty. Price $7.5

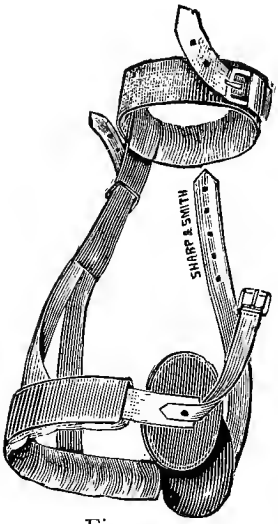


Fig. 1005.

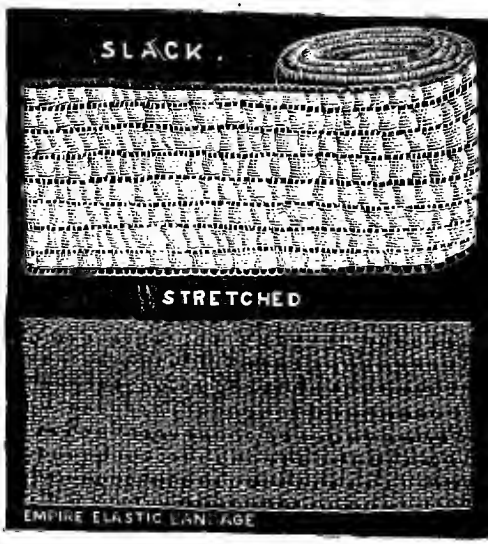


Fig. 1008.

TRUSSES AND BANDAGES.

Fig. 1006-A.

SHARP & SMITH'S ELASTIC LEGGIN.

A new and improved appliance for the treatment of Bog Spavin.

EFFECTIVE AND COMFORTABLE.

Directions for Measurement.

Give circumference of leg at A, B, C, D and E. Give distance from knee joint to lower edge of leggin, and from knee joint to upper edge of same.

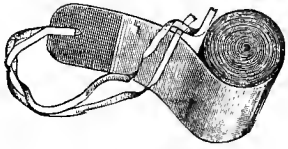


Fig. 1007.

Fig. 1005	Bog Spavin Truss	$5 00
	" " and Thorough Pin Truss	7 00
	Conkey's Improved Bog Spavin Truss	5 00
" 1006	" " " and Thorough Pin Truss	7 50
" 1006-A	Sharp & Smith's Elastic Leggin for the treatment of Bog Spavin	3 75 to 5 25
" 1007	Pure Gum Bandages	

2 in. x 6 feet	$ 50	2½ in. x 12 feet	$1 10
2 " x 9 "	65	2½ " x 15 "	1 25
2 " x 10½ "	75	3 " x 6 "	75
2 " x 12 "	85	3 " x 9 "	90
2 " x 15 "	1 00	3 " x 10½ "	1 00
2½ " x 6 "	65	3 " x 12 "	1 25
2½ " x 9 "	75	3 " x 15 "	1 50
2½ " x 10½ "	85		

Fig. 1008 Empire Elastic Bandages (see Page 110):

2 in. x 3 y'ds (stretch'd)	50	2 in. x 5 y'ds (stretched)	$ 65
2½ " x 3 " "	60	2½ " x 5 " "	75
3 " x 3 " "	75	3 " x 5 " "	1 00

The advantages of these bandages are:

1st. It never causes rash or ulceration under the bandage.

2d. Its elasticity, which will enable the surgeon to put it on at any tension and which will follow a swelling up or down as the case may be, a feature unknown to any other bandage.

3d. Its easy application to any part of the body, not being necessary to fold it over as with other bandages, as it follows itself with equal uniformity around any part of the anatomy.

CLIPPERS.

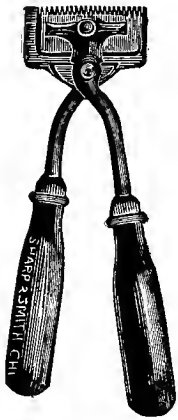


Fig. 1009.

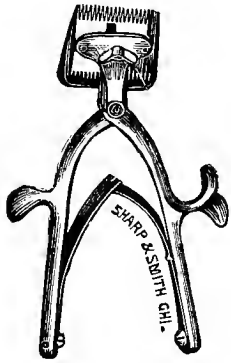


Fig. 1010.

Patented July 1, 1879.
Patented June 3, 1884.

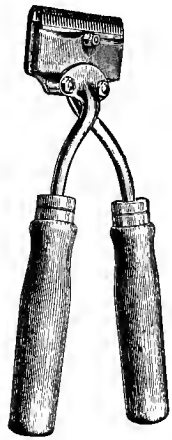


Fig. 1011.

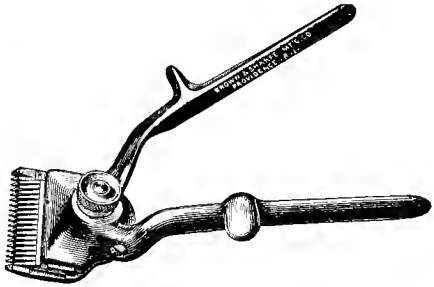


Fig. 1012.

		Net Prices
Fig. 1009	New Market Clippers	$2 50
" 1010	Peerless Clippers, for one hand	3 00
" 1011	Brown & Sharpe Clippers	3 00
	Dandy Clippers	1 75
Fig. 1012	No. 0 Brown & Sharpe Clippers, for one hand	3 50
	No. 00, This Clipper is the same as No. 0, only narrower, each	3 50
	No. 1, To cut hair one-eighth of an inch long "	3 50
	No. 2, To cut hair one-quarter of an inch long "	4 00
	No. 3, To cut hair five-sixteenths of an inch long "	4 50
	Sharpening Clippers	75
	New Top-Plate, including Sharpening	1 50
	No. 00 Bottom-Plate, including Sharpening	2 00
	No. 0 Bottom-Plate, including Sharpening	2 00
	No. 1 Bottom-Plate, including Sharpening	2 00
	No. 2 Bottom-Plate, including Sharpening	2 25
	No. 3 Bottom-Plate, including Sharpening	2 50

CLIPPERS.

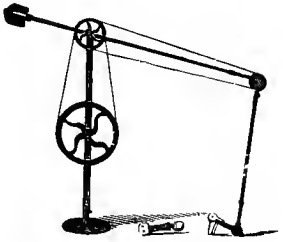


Fig. 1013.

HORSE CLIPPER.

No. 1. This is the perfection of a Horse Clipper. It combines perfect freedom of motion with extensive range. The connection for conveying power from the boy who turns, to the cutter in the handle is positive, and there is the least possible waste of power. It is easily kept in order.

With this Machine the purchaser can have a Handle with Rotary or Vibrating Cutters, at his choice.

The Rotary Cutter is much the best for shearing the head and legs and works nicely on the body of the horse, but some prefer the Vibrating Cutter because it cuts faster. Price $65 00 net.

No. 2. The Cutters and Handles for this Machine are precisely the same as those of No. 1. The Machine is made on the same principle, but the parts which convey the power to the handle, are shorter and consequently the operator cannot reach as far, and is obliged to move the Machine oftener to clip all parts of the horse. Price $50 00 net.

No. 3. This Machine is the same size and has the same range as No. 2. It has Vibrating Cutters. The power is conveyed from the Balance Arm to the Handle by a Belt, which is not quite as convenient, but will do just as good work and just as fast as any other form of the Machine. Price $35 00 net.

This Machine has the advantage of being noiseless.

☞ Price of No. 3, with Rotary Handle, $40 00 net.

Large Rotary, complete, with 1 Comb and 12 Cutters	$25 00	net.
Small Rotary, " " " " " "	24 00	"
Vibrating, " " " " " Cutter	23 00	"
Vibrating Comb and Cutter, combined	3 00	"
Large Rotary Combs, each	4 00	"
Small Rotary Combs, each	3 50	"
Large Rotary Cutters, per doz.,	3 00	"
Small Rotary Cutters, per doz.,	2 00	"

DEHORNING INSTRUMENTS.

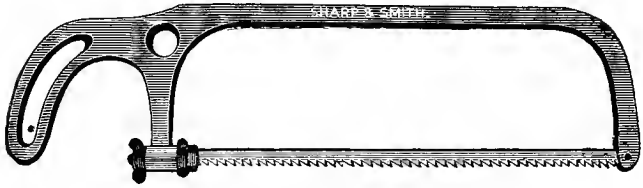


Fig. 1050.

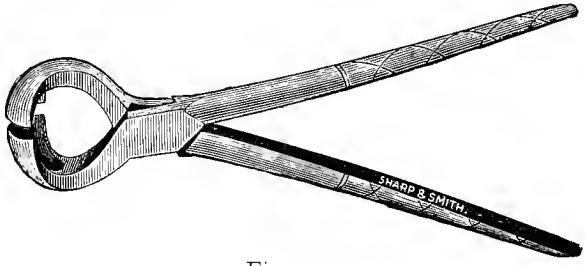


Fig. 1051.

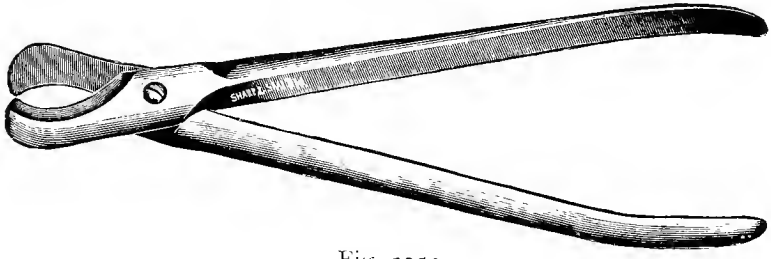


Fig. 1052.

		Net Prices
Fig. 1050	Dehorning Saw, N. P. Best	$3 00
" 1050	" " Japanned Best	2 00
" 1050	" " " Plain	1 50
" 1051	Gouging Forceps N. P.	3 50
" 1051	" " Plain	3 00
" 1052	Dehorning Forceps	5 00

Haaf's Dehorning Set, Consists of

1 Saw,
1 Punch,
1 Gouging Forceps,
2 Pulley Blocks,
Book of Instructions.....$5 00

CAPONIZING INSTRUMENTS.

Fig. 1100.

Fig. 1100 Patent Farmer's Caponizing or No. 1 Set.

The art of caponizing seems to be very little known in this country. The operation, however, is quite simple, and in France and Italy is frequently allotted to mere children.

This set is especially invented to enable farmers and poulterers to do their own caponizing.

The advantages of capons are, much larger fowls, sweeter and finer meat, and will pay 100 per cent. more than ordinary fowls. They will rear and care for many more young chicks from an incubator or hen, than a hen will, on account of their large size. They like the young chicks' company, neither hens nor cocks having any use for them. The hen, after bringing out a brood, feed her for a few days, then let her run with the flock and she will lay again.

No farmer who raises poultry can afford to be without this set.

This set consists of one fine steel knife and forceps; one nickel-plated spreader, both well adapted for the purpose; improved German silver cutting and twisting scoop, with fine hook on opposite end; one fine German silver probe, and four German silver hooks attached to cords for quickly securing the fowl; all in a fine velvet-lined case, with twenty-five cent book, PRACTICAL CAPONIZING AND HOW TO MAKE POULTRY PAY, sent by mail, on receipt of price, $3 00 net.

CAPONIZING INSTRUMENTS.

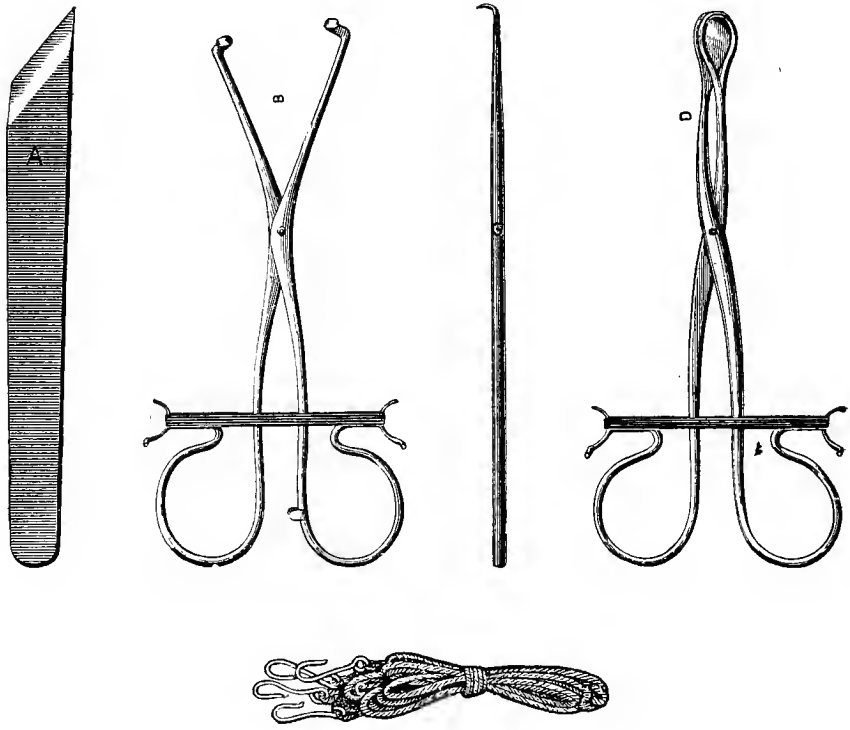


Fig. 1101 Farmer Miles' Caponizing or No. 2 Set.

This set has a great many admirers, as it does away with the horse hair. It consists of a knife *a* for making the incision; the Spreader Forceps *b* for holding the side open; sharp hook *g* for catching the skin; the Loop Forceps *d* is for catching and removing. Cords with hooks *c* are for holding the bird. They are very fine instruments, made of the finest steel, and of the best workmanship. The above set with instructions, in a fine velvet lined case, sent by mail on receipt of price, $7.00 net.

CAPONIZING INSTRUMENTS.

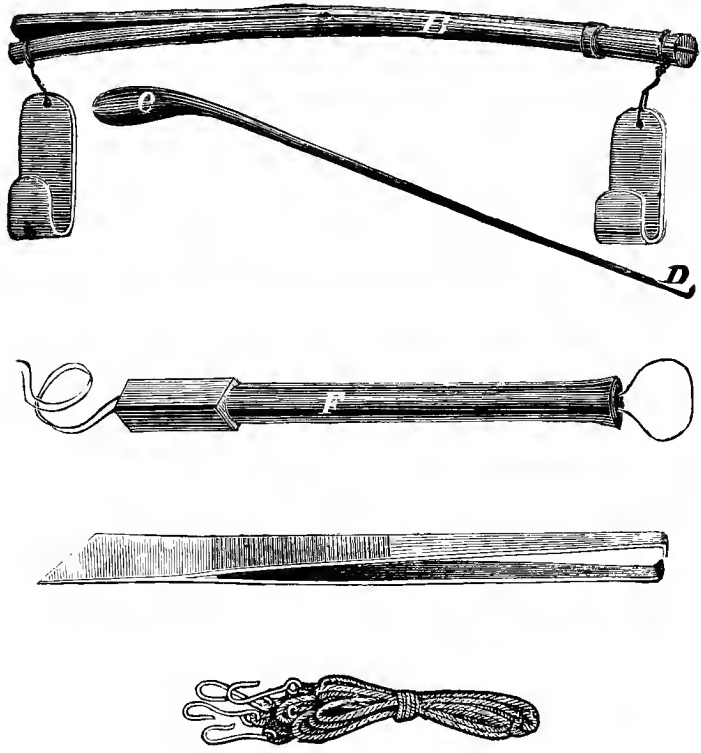


Fig. 1102 Chinese Caponizing or No. 3 Set.

This set consists of a beveled knife *a* on the forceps, for making the incision. The whalebone *b*, with a hook at each end, is the spreader for holding the wound open. Hook *d* is for tearing the thin skin open. Tube *f*, with horse hair at the end, is for sawing them off. Spoon *e* is for spooning out the blood, etc. Cords and hooks *c* for holding the bird.

Many who use this set think it has no equal. They are well made, and fully worth the price.

The above set complete with instructions, in a velvet lined case, sent by mail on receipt of price, $4 00 net.

CAPONIZING INSTRUMENTS.

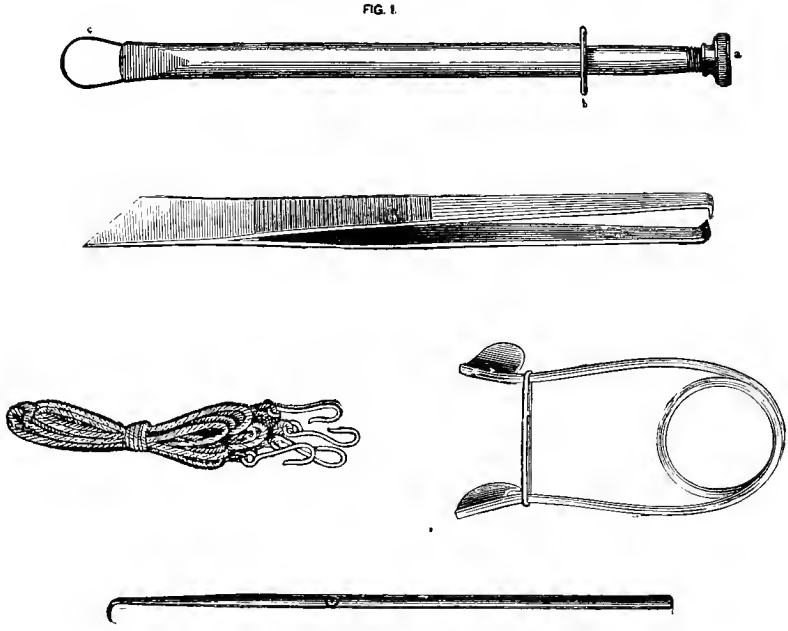


Fig. 1103.

INVENTED MARCH 10, 1858.

The above cuts represent No. 4 Set, which is used the same as the Chinese set, with the exception of the horse hair canula. We use a fine steel wire in a self-holding canula, as follows: By catching the first and second fingers on plate *b b*, and pressing your thumb on *a*, the wire will come forth in a loop-shape *c* ready for receiving, and on removing the thumb it will return to its first position, holding the spermatic cord firmly between the wire and the end of the canula. We find this instrument gives great satisfaction. The set consists of one improved canula; one nickel-plated spreader *h*; one knife and forceps *a*; two cords and hooks *c*; and one sharp hook *g*.

The above set in a fine velvet lined case, with instructions, sent by mail on receipt of price, $4 00 net.

CAPONIZING INSTRUMENTS.

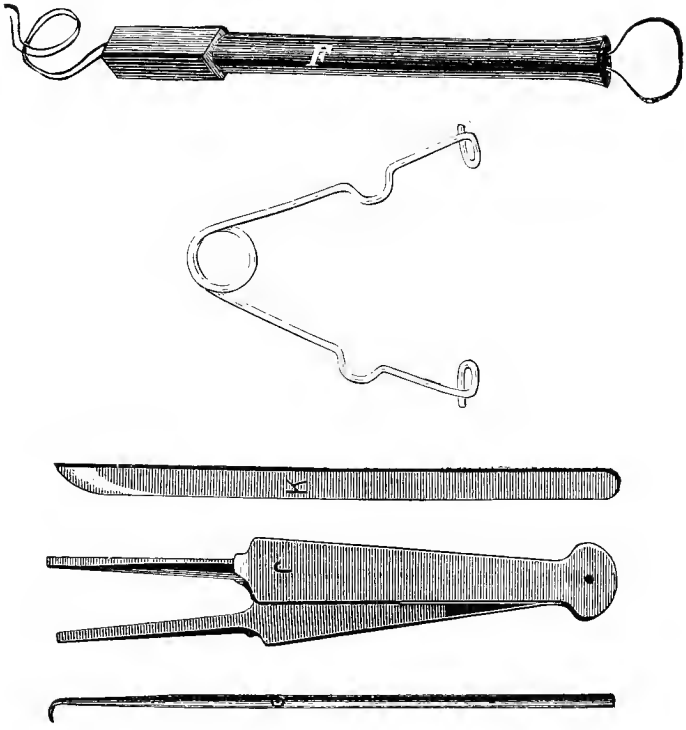


Fig. 1104.

The above cuts represents plain or No. 5 Set; they are used the same as the Chinese or No. 3 set; they consist of the following: One knife *k*, one wire spreader *l*, one canula *f*, one forceps *j*, one sharp hook *g*. With complete instructions, in a strong pasteboard box, sent by mail on receipt of price, $2 00 net.

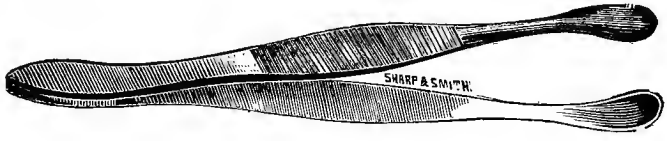


Fig. 1104-A.

Fig. 1104-A Caponizing Forceps.....$1 15 net.

Fig. 1104-B.

Fig. 1104-B Caponizing Hook and Spoon.....$1 00 net.

CAPONIZING INSTRUMENTS.

Fig. 1105 Patent Caponizing Scoop and Hook.

Price, with Instructions ..... $1.50 net.

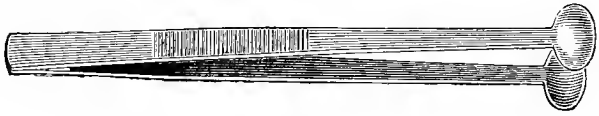


Fig. 1106 Caponizing Spoon Forcep, Straight.

Price ..... $1.00 net.

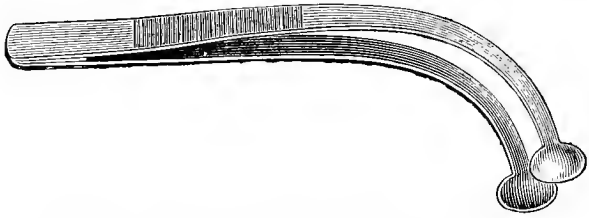


Fig. 1107 Caponizing Spoon Forcep, Curved.

Price ..... $1.00 net.

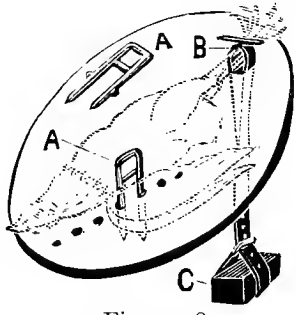


Fig. 1108.

The above cut shows how a good caponizing board can be made by using the improved staple *a* to slide over the bird's wings, with two lugs on, about one inch from the points, to prevent forcing the wings too close together, which would be the case without them. The bar crossing the staple in the middle enables you to use the upper part for a handle. One point is longer than the other, to make its introduction into the board much easier. With seven holes in the board it will take any size bird. *B* is a strap loop, with a pin across the top, to prevent the strap from falling through the board when not in use. At the other end of the strap is a weight (*c*) for keeping the feet down.

This staple sent by mail on receipt of price, 10 cts. net.

CAPONIZING INSTRUMENTS.

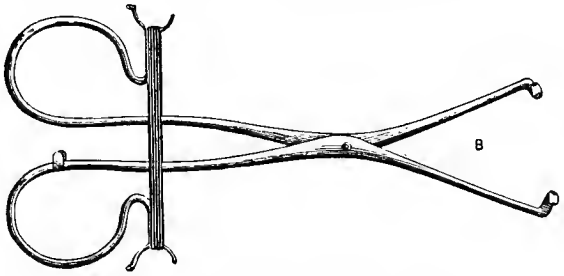


Fig. 1109 Farmer Miles' Caponizing Spreader.
Price.....$3.00 net.

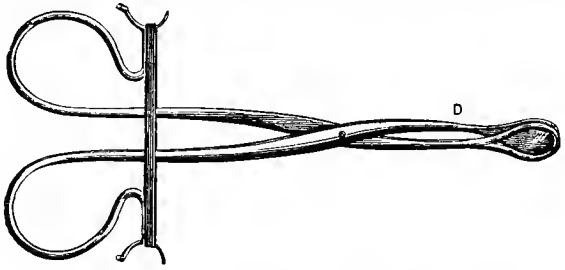


Fig. 1110 Farmer Miles' Caponizing Forceps.
Price.....$3.00 net.

Fig. 1112 Farmer Miles' Caponizing Knife.
Price.....50cts. net.

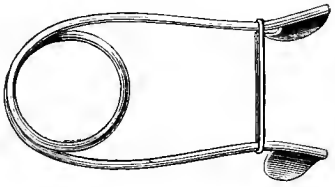


Fig. 1113 Nickel Plated Spreader.
Price.....$1.00 net.

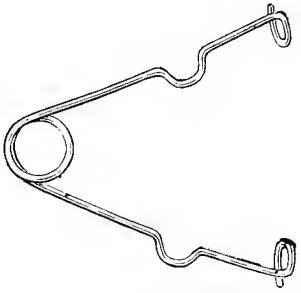


Fig. 1114 Plain Spreader.
Price.....50 cts. net.

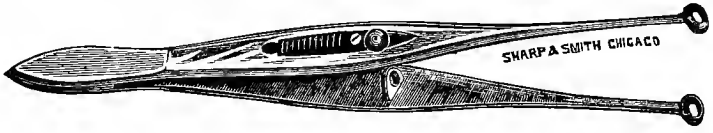


Fig. 1114-A Sawyer's Vulsella or Grasping Forceps.
Price.....$5.00 net.

CAPONIZING INSTRUMENTS.

Fig. 1114-B Sawyer's Dissecting Forceps, with fixing slide.....$2.25 net.

Fig. 1115 Improved Steel Wire Caponizing Canula. Price, with instructions,..... $2.00 net.

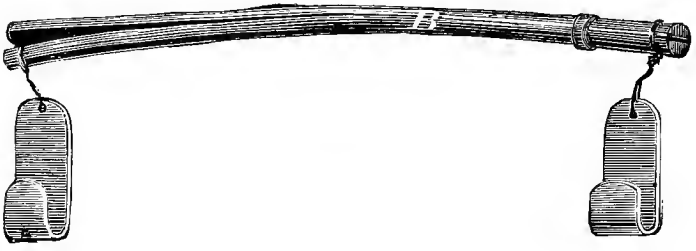


Fig. 1116 Chinese Whalebone Capon Spreader. Price.....$1.50 net.

Fig. 1117 Chinese Horse Hair Canula. Price .....75 cts. net.

Fig. 1118 Chinese Caponizing Knife and Forceps. Price .....$1.00 net.

Fig. 1119 Chinese Caponizing Spoon and Hook. Price.....$1.00 net

Fig. 1120 Caponizing Probe and Spatula. Price .....20 cts. net.

CAPONIZING INSTRUMENTS.

Fig. 1120-A Sawyer's Speculum, or Spreader, $3.00 net.

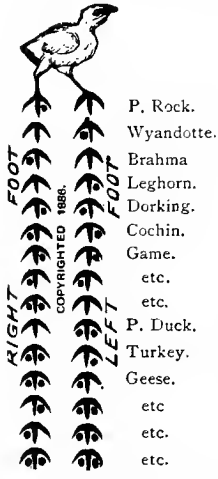
Fig. 1120-B Sawyer's Chain and Hook, for holding bird on table, per set..... 20c. net.

Fig. 1121 Caponizing Hook. Price 10 cts. net.

Fig. 1122 Four Hooks and Cords. Price 20 cts. net.

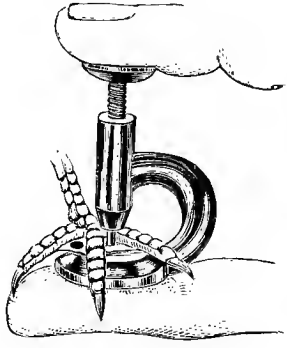
SUNDRY POULTRY GOODS.

This little instrument is for marking young and old chickens and all kinds of fowls. It is invaluable to Breeders and Farmers—the marking will enable them to recognize their fowl at a glance, either with or without their feathers. If you have fowls stolen you need no better proof than your own private markings, which need not be known to any one but yourself, keeping a register, as follows.



Invented September 5, 1886.

Fig. 1123.



SIZES.

LARGE. SMALL.

These fifteen figures can be made into 225 different ways of marking. This can be increased by marking the skin of the wing. It is a great advantage for young chicks. The eggs are marked from the different breeds, and as soon as the chicks are hatched they are marked with the punch; by so doing you can tell their age, and every detail in regard to them. This punch is worth its price several times over in detecting the chicken thief. The cut shows full size. They are made in two sizes for large and small chicks, nickel-plated, have steel cutter and spring, and are made small and neat to carry in the vest pocket Sent by mail on receipt of price, 25 cts. net.

SUNDRY POULTRY GOODS.

Fig. 1124.

Fig. 1124 Brass Wire Distinguishing Rings.

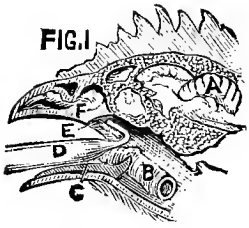
For temporary marking of fowls at shows, etc. Numbered to order, from 1 to 100.

Price 36 cts. per dozen. Sample, 5 cts. net.

Adjustable Distinguishing Bands.

For marking fowls. Numbered from 1 to 100, or with one, two or three letters.

Price 50 cts. per dozen. Sample, 5 cts. net.



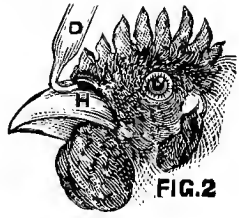


Fig. 1126 Poultry or Roop Syringe.

For the cure of roop and its kindred diseases. Fig. 1 shows the internal application, and Fig. 2 the external. Price, with recipe, 10 cts. net.

Fig. 1127 French Poultry Killing Knife.

The most expeditious and humane way of killing and dressing poultry is by the French method. These knives we make of the finest steel. Price, with instructions, 50 cts. each, net.

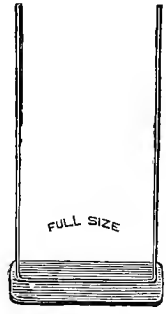


Fig. 1128 Bit to Prevent Feather Pulling.

This bit does not interfere with the bird's feeding; it keeps the bill far enough apart to prevent their catching the feathers. Price $1.00 per dozen, net. Sample, 10 cts. net.

TURF GOODS.

HORSE BOOTS.

The largely increased demand for HORSE BOOTS, consequent upon the great progress that has been made in their manufacture, has brought our line of these goods into special prominence and great favor with the trade.

In the following pages is shown part of the assortment and variety that we keep, including the famous CYNTHIANA and CALIFORNIA styles, *with special improvements and adaptations.*

Our claims for the superiority of these HORSE BOOTS are based upon the following POINTS:

1. WORKMANSHIP. This department of the factory where they are made employs only the best skilled labor, under the personal supervision of one of the most competent, practical boot men in this country, who for years past has been connected with the best manufacturers of this line.

2. SHAPE. Our Boots are of the latest and most perfect designs—the result of years of study and experiment in this direction.

3. QUALITY. All our Boots are manufactured from first-class selected stock, therefore we feel justified in making special claim to superiority in the quality of these goods.

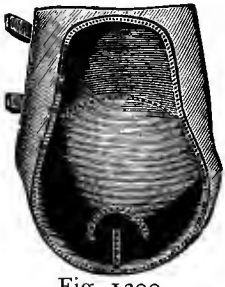


Fig. 1200.
Nos. 1 and 2.

Fine Hand-Sewed Horse Boots.

		Net Prices.
Fig. 1200	No. 1, Ankle Boot: Calf	$2 25 per pair.
	No. 2, Ankle Straight: French Calf	2 50 " "
	No. 3, Ankle Extension: French Calf	2 50 " "
	No. 4, Front Ankle	2 25 " "
	No. 6, Ankle Boot: Kersey, Leather Cupped	3 00 " "
	No. 7, Hind Ankle: Felt Leather Trimmed, with Elastic	3 75 " "
	No. 8, Pastern Joint, Racing	3 00 " "
	No. 9, Knuckler, or Fetlock	4 00 " "

TURF GOODS—HORSE BOOTS.

Net Prices.

No. 11	Front Shin and Ankle, with Elastic	$4 00 per pair.
" 14	Shin and Ankle, heel extension, calf	4 00 "
" 15	Shin, Ankle and Tendon, calf	4 75 "
" 18	" " " with elastic	5 00 "

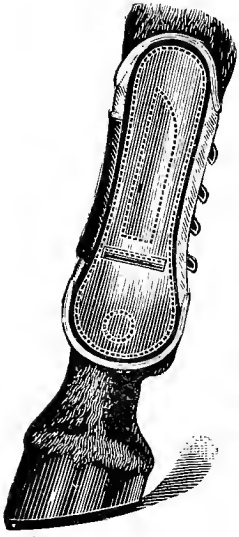


Fig. 1201. No. 12.
Hind Shin and Ankle, with elastic.
$4.50 per pair, net.

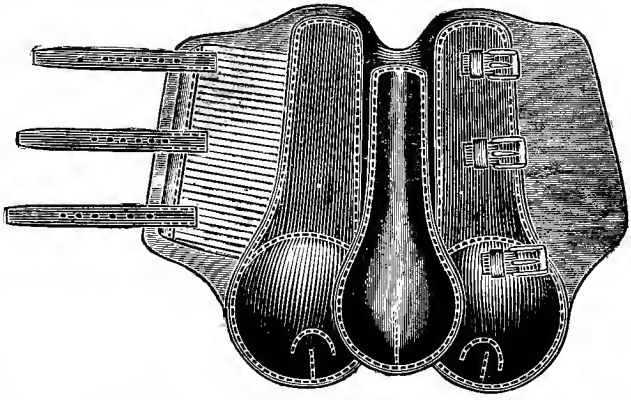


Fig. 1203. No. 16.
Double Shin, Ankle and Tendon; calf, with elastic.
$5.25 per pair, net.

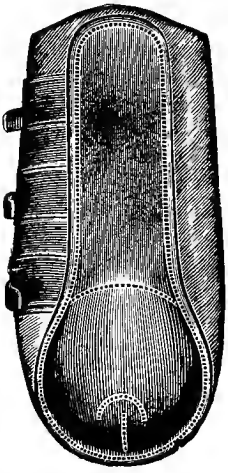


Fig. 1202. No. 13.
Shin and Ankle; calf with elastic.
$4.00 per pair, net.

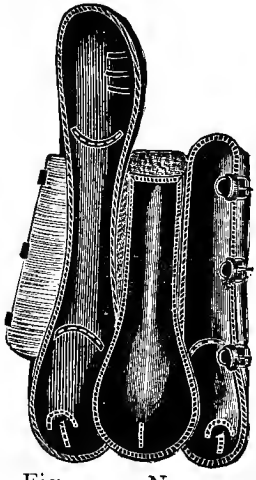


Fig. 1204. No. 17.
Double Shin, Ankle, Tendon and Knee; calf, with elastic.
$5.75 per pair, net.

TURF GOODS—HORSE BOOTS.

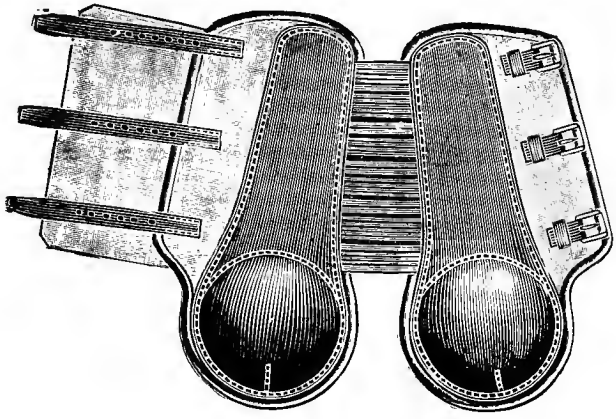


Fig. 1205. No. 19.
Double Shin and Ankle, with elastic.
$5.25 per pair, net.

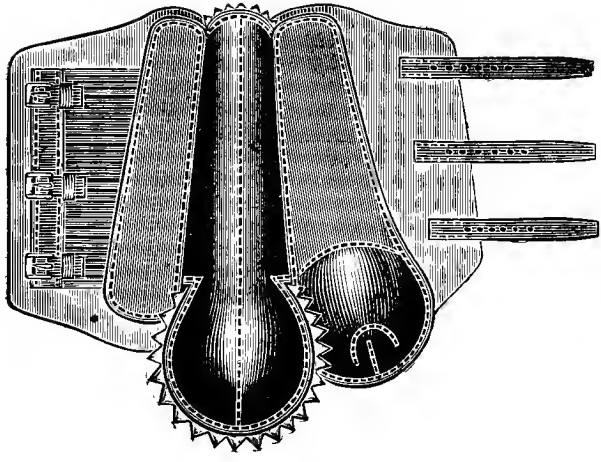


Fig. 1206. No. 21.
Shin, Ankle and Tendon; calf, with spring and elastic.
$6.50 per pair, net.

TURF GOODS—HORSE BOOTS.

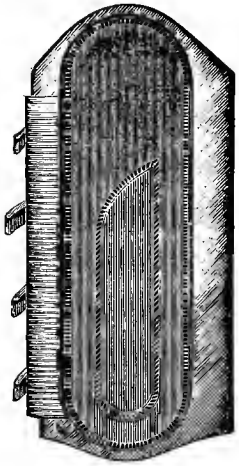


Fig. 1207. No. 23.
Hind Block Shin; calf, with elastic.
$3.50 per pair, net.

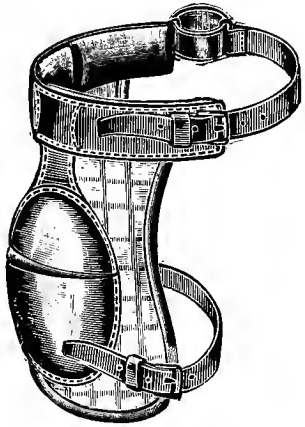


Fig. 1208. No. 34.
Stumbling Boot, hinged.
$4.75 per pair, net.

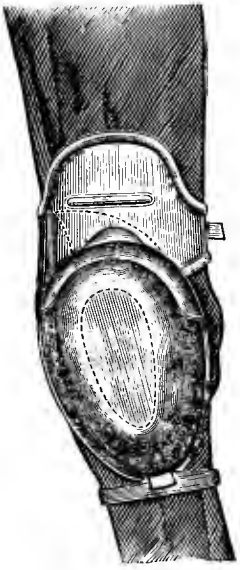


Fig. 1209. No. 35.
Knee Boot, hinged.
$5.50 per pair, net.

Fig. 1210. No. 40.
Knee and Arm.
$8.00 per pair, net.

TURF GOODS—HORSE BOOTS.

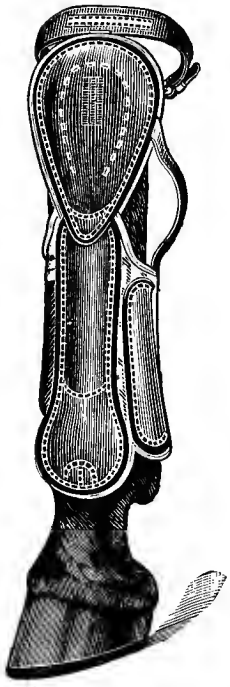


Fig. 1211. No. 41.
Front Shin, Ankle Tendon and Knee, with Elastic.
$8.00 per pair, net.

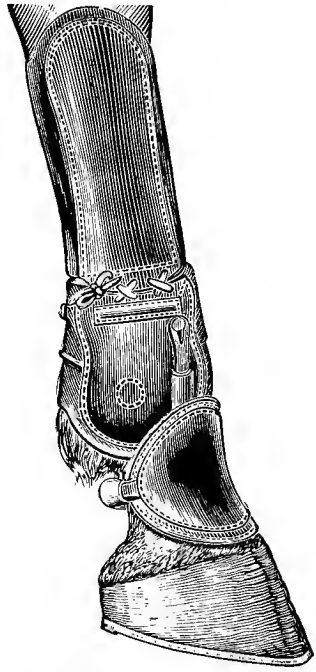


Fig. 1212. No. 42.
Hind Shin, Ankle and Speedy Cut.
$8.00 per pair, net.

Fig. 1213. No. 9.
Knuckler, or Fetlock.
$4.00 per pair.

	Net Prices.
No. 24 Hind Block Shin, Kersey, with elastic; per pair	$3 50
No. 25 Hind Block Shin, Kersey, plain; per pair	2 00
No. 30 Knee Pad (cupped); per pair	3 00
No. 31 Knee Boot Russet, felt lined; per pair	5 00
No. 32 Stumbling Boots; per pair	4 50
No. 43 Hind Shin, Ankle and Speedy Cut, California style; per pair	5 25

TURF GOODS—HORSE BOOTS.

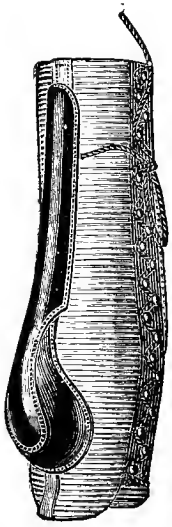


Fig. 1214. No. 46.
Elastic Stocking, with Back-cord.
$6.00 per pair, net.

No. 47. Same as No. 46. Without Shin-Brace.
$4.50 per pair, net.

Fig. 1215.
Elastic Stocking for Bog Spavin.
$5.00 each, net.

Fig. 1216. No. 48.
Elastic Stocking, with Scalper.
$6.00 per pair, net.

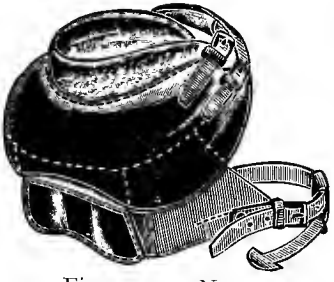


Fig. 1217. No. 52.
Quarter Boot, hinged, elk lined.
$4.50 per pair, net.

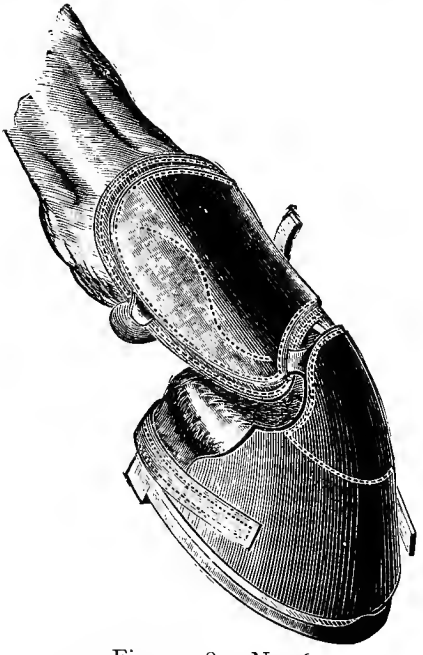


Fig. 1218. No. 61.
Hind Hoof and Speedy Cut, Side Acting. $5.25 per pair, net.
No. 62. Same as No. 61. Front Acting.
$5.25 per pair, net.

TURF GOODS—HORSE BOOTS.

Fig. 1219. No. 72.
Soaking, or Poultice Boot; black leather.
$4.50 per pair, net.

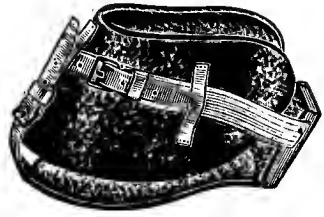


Fig. 1220. No. 73.
Soaking Boot; felt, perforated bottom.
$3.00 per pair, net.

		Net Prices.
No. 47	Elastic Stocking, with back cord, without Shin Brace	$4 50 per pair.
" 50	Quarter Boot, Buck Lined	2 67 " "
" 51	" " Best Grade Elk Lined	4 00 " "
" 53	" " Side Hinged " "	4 50 " "
" 54	" " " " " " California style	4 50 " "
" 55	Quarter Boot, Felt, Leather, Cupped and Trimmed	2 75 " "
" 56	Bell Quarter Boot, Cupped	3 00 " "
" 57	" " " Straight	3 00 " "
" 58	" " Felt, Leather Trim'd, Machine Stitched	2 25 " "
" 59	Scalper	2 50 " "
" 60	" Heel Extension	2 75 " "
" 63	Elbow Pad	8 50 " "
" 71	Calking Boot, Zinc Covered	2 00 " "
" 74	" Roll, Double, Leather	1 75 each.
" 75	" " Stuff'd, Leather and Canvas	1 75 "
" 76	" " All Leather	2 00 "

TURF GOODS.

Dempsey Hoof Pad, or Foot Cushion

Made of Rubber.

PATENTED JULY 13, 1886. No. 345,283.

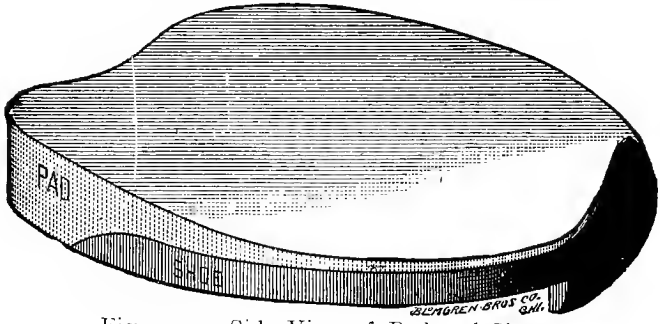


Fig. 1221 Side View of Pad and Shoe.

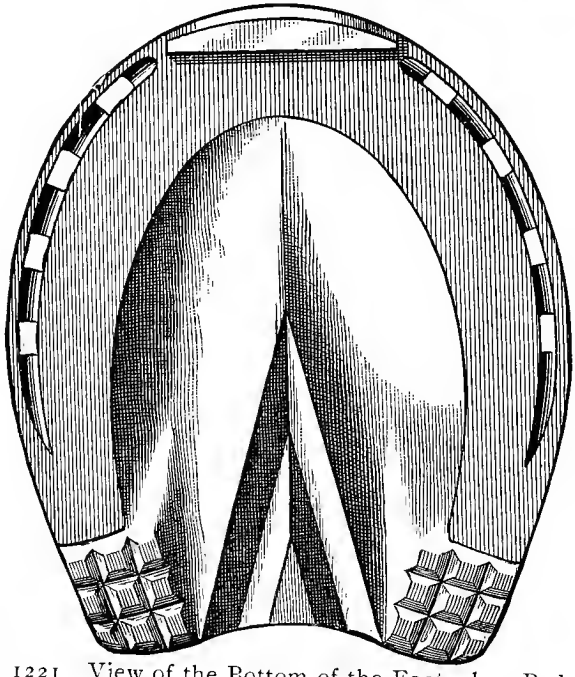


Fig. 1221 View of the Bottom of the Foot when Pad and Shoe are Properly Adjusted.

Sample Pair of any size sent, postpaid, on receipt of $1 50.

If you are in doubt as to the size required, put the bare foot of the horse upon a piece of paper and mark the outline with a pencil, and forward the outline to us.

These Pads are easily put on by any Horse Shoer.

TURF GOODS.

The Dempsey Hoof Pad, or Foot Cushion.

(See Opposite Page.)

It is a well-known fact, that many of the ordinary foot and leg diseases of horses are directly traceable to the present methods of shoeing. An unshod horse, in walking or trotting, brings into action not only the hoof, but as well also, the heel quarters and the frog of the foot. The elastic character of the frog enables it to serve as a cushion to save the hoof and body of the foot from severe concussion.

Mr. Dempsey says in regard to his present invention that it has for its main object to provide an improved foot cushion to be used in conjunction with the iron shoes for horses, whereby the frog of the foot may be kept in constant and natural action, so that it will preserve the foot in healthy condition.

		Net Prices
Fig. 1221	No. 1, Light, Med. and heavy, per pair	$ 75
"	2, " " " " "	75
"	3, " " "	75
"	3, " " "	1 00
"	4, Light " " "	1 00
"	4, " " " "	1 25
"	5, " " " "	1 25
"	6, " " " "	1 50

The Safety Hitching-Strap Clasp.

Fig. 1222. No. 114. Safety Hitch Clasp.

This Clasp is at once the most simple, perfect and durable device in the market.

It can be instantly adjusted. It will not slip. It avoids all the trouble and delay connected with the use of the ordinary *tie-strap*.

STRAPS WITH SAFETY CLASP.

Fig. 1222	No. 111.	Heavy leather, 6ft.x¾ inch, with Snap and Safety Clasp ... per doz.,	$ 2 75
"	112.	Heavy Leather, 6½ft.x¾ inch, with Snap and Safety Clasp ... per doz.,	3 00
"	113.	Heavy Leather, 7ft.x¾ inch, with Snap and Safety Clasp ... per doz.,	3 25
"	114.	Safety Hitch-Clasp, only ... " "	50

TURF GOODS.

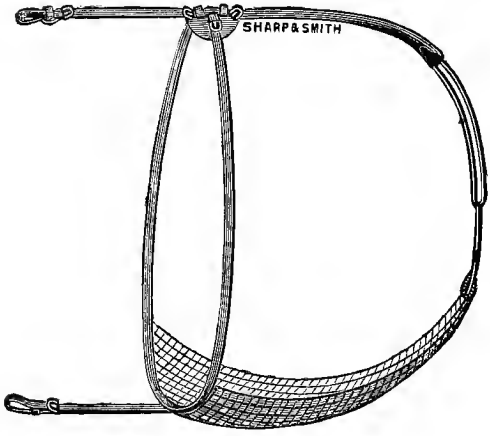


Fig. 1223.

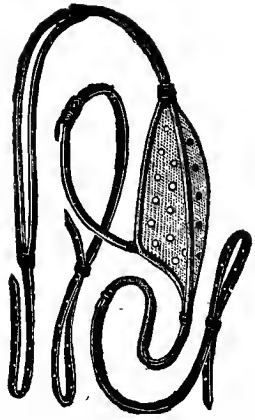


Fig. 1224. No. 80.

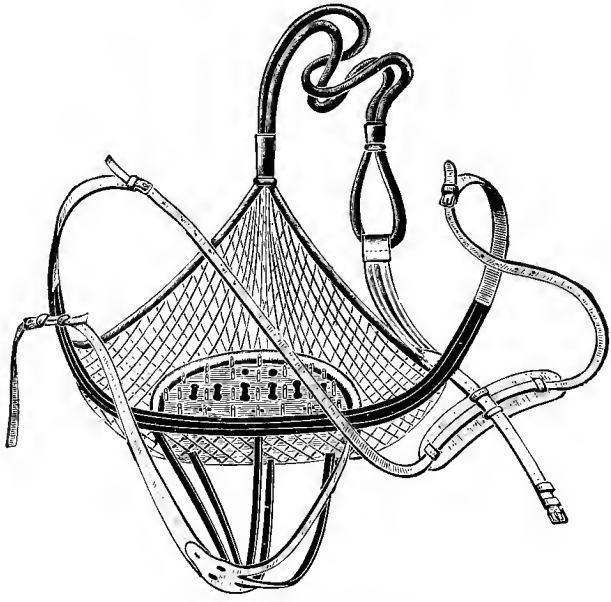


Fig. 1225. No. 82.

TURF GOODS.

Fig. 1226. Nos. 86, 87.

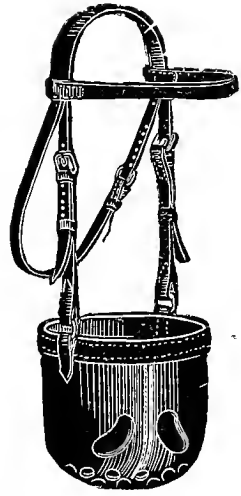
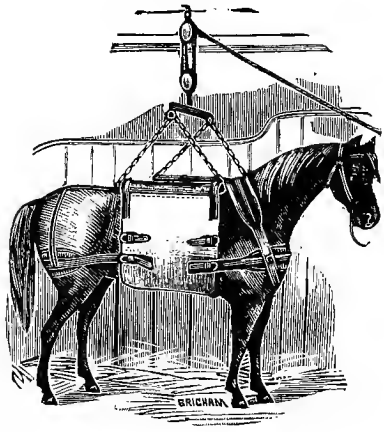


Fig. 1227. No. 90.

		Net Prices.
Fig. 1223	Stallion Supporter	$ 6 00
" 1224	No. 80, Stallion Supporter, Rubber	4 00
" 1225	No. 81, " Preventive, Improved	8 00
" 1226	No, 86, Horse Muzzle, Wire, with Throat Piece	1 75
" 1226	No. 87, " " " " " and Front Piece	1 85
" 1227	No. 90, English Oval Muzzle, Fine Russet or Orange Leather	3 50

Please do not cut or mutilate this book. In ordering, always state Number of Page and Figure of Catalogue.

SLINGS.



Net Prices.

Fig. 1227 Slings, complete with Tackle and Pulley Block..... ...$25 00
" " " " "Self-locking Pulley Block 38 00
" without Tackle and Pulley Block..... 20 00

Fig. 1228 SHARP & SMITH'S OPERATING TABLE. **(See following page.)**

The superiority of this table over all others is, that it **raises the horse squarely off his feet,** and carries him gently over to his side from the vertical to the horizontal plane by a rotary movement, while other tables, being hinged firmly near the center of the table, must throw the animal's feet from under him in one direction while the body goes in another direction, thus frightening the animal and causing needless nervous strain. No other table made possesses the advantages that ours do as described above. It is capable of being turned to **any** plane beyond the horizontal. Another advantage is that the hobbles are **compensating,** thus while one foot is drawn close to the table, the connecting loop, passing through a loop on the sliding rod, allows the other foot to be drawn closely without pain to the one already drawn down.

The table is supplied with a neat strap at each end, so that the horse may be changed to either side. Attached also to the table are three heavy girths which go around the body. These girths are supplied with patent cambuckles, which may be fastened at every part of the girth, and can be let loose instantaneously, regardless of weight. This easy mode of buckling and unbuckling is very advantageous, especially when the horse is being freed after an operation.

The body straps are detachable, which is an advantage in cleaning and drying them after operations.

The table is made of two inch plank matched and grooved, nine feet long by six and one-half feet wide, covered with thick canvas and upholstered to the thickness of three or four inches. The table works on a strong frame which is securely fastened to the floor

To parties wishing to purchase a table we will send working model, so that they can see just what they are ordering. Price $100 00 net.

SHARP & SMITH'S OPERATING TABLE.

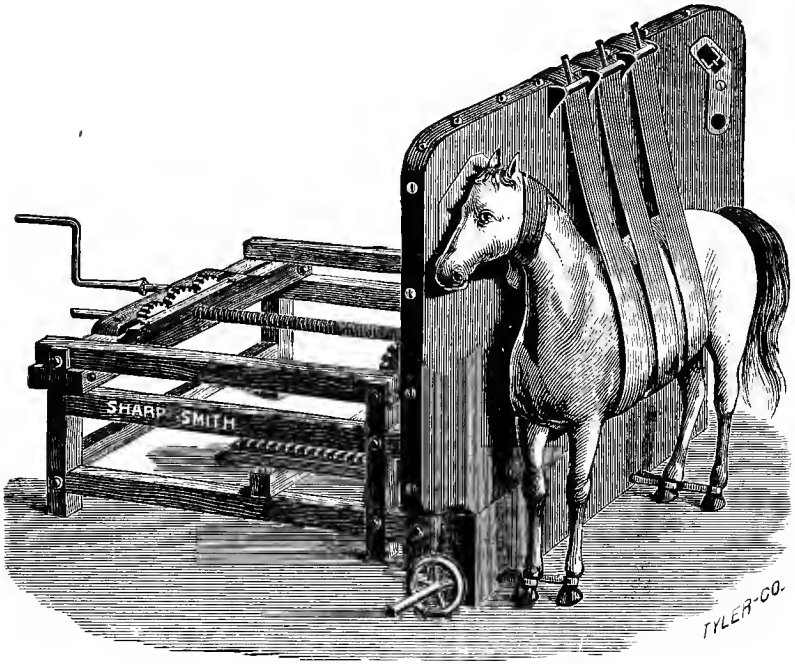


Fig 1228.

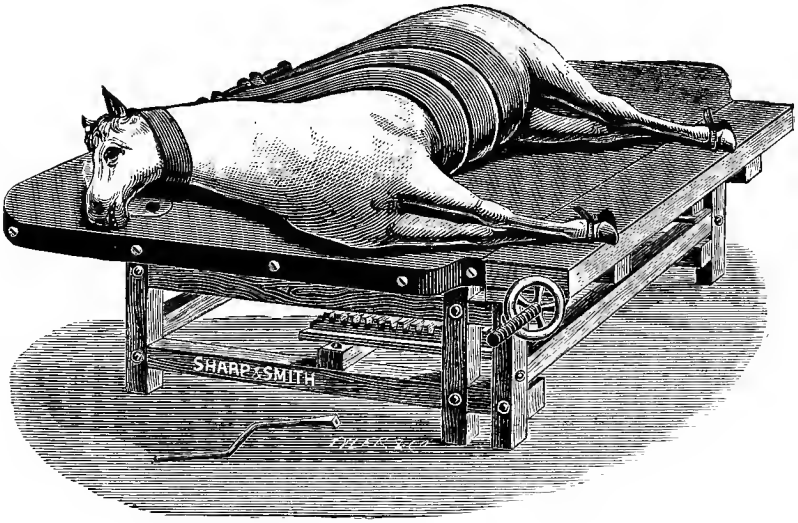


Fig. 1228.

SUNDRY NECESSITIES.

Fig. 1250.

Net Prices.

Fig. 1250 Wedgewood Mortars, 3¼ in. across top....each, $0 40
Wedgewood Mortars, 3½ in. across top....each, 50
Wedgewood Mortars, 4½ in. across top....each, 60
Wedgewood Mortars, 6 in. across top....each, 90
Wedgewood Mortars, 7 in. across top....each, 1 35
Wedgewood Mortars, 8 in. across top....each, 1 65

Larger sizes from $1.75 to $3.50.

Glass Mortars.

Glass, 2 ounces	each	$0 25
" 4 "	"	40
" 8 "	"	50
" 16 "	"	75
" 32 "	"	1 00

Iron Mortars.

Iron, ½ pint	each	$0 45
" 1 "	"	50
" 1 quart	"	75
" 1½ gallon	"	1 10

Spatulas.

Spatulas, steel, 4 inches	$0 35
" " 6 "	45
" " 8 "	65
" " 10 "	1 00
" and Knife, Pearl Handle	1 75

Oil Stones.

Arkansas Slips	$0 35 to $0 50
" Oblongs	1 25 to 2 50
" Oucheta	25

Graduates.

1 and 2 drachm Graduates	each,	$0 15
1 ounce Graduates	"	15
2 " "	"	20
4 " "	"	30
8 "	"	40

SUNDRY NECESSITIES.

BANDAGES.

NEWMARKET, SET OF 4.

	Net Prices.
5 inches wide, 2 yards long, White	$1 75
" " Gray	2 00
" " Scarlet	2 25

DERBY, SET OF 4.

White	$0 65
Brown	75
Scarlet	1 00

EXTRA FINE WOOLEN, SET OF 4.

5 inches wide, 2½ yards long, White	$2 50
" " Fawn	3 00
" " Scarlet	3 00

LINEN, SET OF 4.

4 inches wide, 2 yards long	$1 75

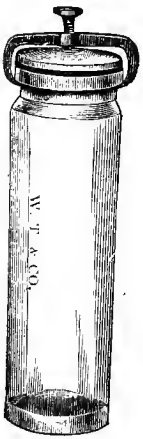


Fig. 1251

Fig. 1251	Specimen Jars, 1 pint	$0 50
	" " 1 quart	75
	" " 2 "	1 00
	" " 4 "	1 50
	" " 2 gallon	2 00

Fig. 1252 Screw Neck Tube Vials, 25c. to 50c.

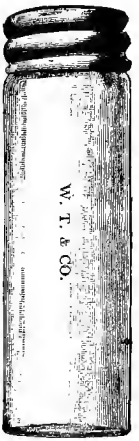


Fig. 1252.

SUNDRY NECESSITIES.

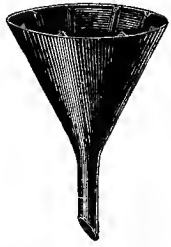


Fig. 1253.
Papier Mache Funnels, with Ridges.
25c to $1.00 each, net.

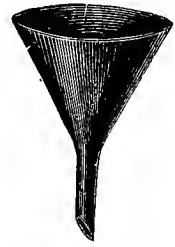


Fig. 1254.
Papier Mache Funnels, Plain.
20c to 95c net.

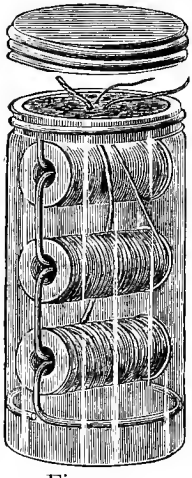


Fig. 1255.

LIGATURES.—Silk.

	Net Prices.
Fig. 1255 Braided Silk, Carbolized, 3 assorted sizes	$0 75
Fig. 1255 Twisted Silk, Carbolized, 3 assorted sizes	50
Fig. 1255 Iron Dyed Silk, Carbolized, 3 assorted sizes	75
Fig. 1255 White Braided Silk (17 yards), Carbolized, 3 assorted sizes	2 00
Fig. 1256 Assorted, 4 sizes, Turner's Silk, White, Braided	50
Fig. 1256 Assorted, 4 sizes, Sharp & Smith's Silk, White, Braided	50
Fig. 1256 Assorted, 4 sizes, Sharp & Smith's Silk, Iron Dyed	50
Assorted, 4 sizes, Sharp & Smith's Silk, White, Twisted	25
Assorted, 4 sizes, Sharp & Smith's Silk, Iron Dyed	25
Sharp & Smith's one size, White, Braided Silk Tablets	30
Sharp & Smith's one size, Iron Dyed, Braided Silk Tablets	30
Turner's one size, White, Braided Silk Tablets	30
Sharp & Smith's Braided Silk, in Skeins, per skein	15
Fig. 1257 White or Iron Dyed Silk on Reels, each	10

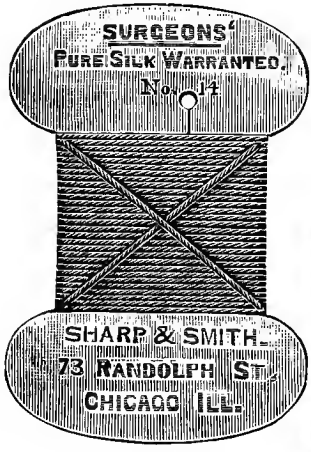


Fig. 1257.

Fig. 1256.

SUNDRY NECESSITIES.

LIGATURES.—Cat-Gut.

		Net Prices.
Fig. 1255	Sharp & Smith's, 3 sizes, assorted Catgut, Carbolized	$ 0 60
	S. & J.'s Catgut Ligature (in any solution), Nos. 0, 1 each	30
	" " " " Nos. 2, 3, 4 "	35
	" " " " assorted, 3 sizes	50
	J. & J.'s " " (8 feet " any size, per bottle	25
	Silk Worm Gut ..... per doz. strings	20
	" " " ..... per bunch	75
Pure Silver Wire, assorted sizes, from 18 to 32 Stubb's Gauge, per coil		35
" " " 6 different sizes (1 yard each), on Spools in Case.		1 50
" " " ..... per oz.		3 00
Pure Copper Wire, Silver Plated ..... per coil		25
Iron Wire ..... "		10
Lead Wire, No. 1, 5 yard coils		15
" " " 2 " "		25

ANTISEPTIC TABLETS.

Corrosive Sublimate Tablets, 25 in bottle ..... per bottle		$0 25
" " " 50 " ..... "		40
Hydronaphthol " 100 " ..... "		35

ANTISEPTIC SPONGES.

Sponges, Antiseptic, small ..... per doz.	$1 00 to	$1 50
" " medium ..... "	2 00 to	3 50
" " large ..... "	4 00 to	7 50
" " flat ..... "	1 00 to	2 50
" " " ..... "	60 to	2 00
Spongio Pilene, 36 inches wide ..... per yard		5 00

PURE LAMB'S WOOL.

Plain Antiseptic Lamb's Wool, pound pkgs	$ 2 00
" " " " ½ " "	1 00
" " " " ¼ " "	50
Binoidide of Mercury, 1-8000 Lamb's Wool, 1 pound pkgs	2 00
" " " " " ½ " "	1 00
Carbolated 1-8000 Lamb's Wool, ¼ pound pkgs	65
Iodoform " " " ¼ " "	75
Sublimated " " " ¼ " "	65

SUNDRY NECESSITIES.

GAUZE.

		Net Prices.
Carbolized Gauze, 5 yard roll, 5 and 10 per cent		$ 55
Iodoform " 5 " " 10 per cent		1 25
Corrosive Sub., 5 " " 1-1000		55

COTTONS.

Absorbent Cotton (in lb. pkgs.)	per lb.	$ 40
Carbolated " " " "	" "	50
Sublimated " " " "	" "	45
Borated " " " "	" "	45

BEST WHITE MUSLIN BANDAGES.

½ in.x1 yard Best White Muslin Bandages	per doz.	$ 10
1 in.x3 " " " " "	"	35
2 in.x3 " " " " "	"	45
2 in.x8 " " " " "	"	1 00
2½ in.x3 " " " " "	"	65
2½ in.x8 " " " " "	"	1 50
3 in.x4 " " " " "	"	90
3 in.x8 " " " " "	"	1 30
3½ in.x5 " " " " "	"	1 70
3½ in.x8 " " " " "	"	1 80
4 in.x6 " " " " "	"	1 70
4 in.x8 " " " " "	"	2 25

WHITE OR RED FLANNEL BANDAGES.

1½ in.x3 Yards White or Red Flannel Bandages	per doz.	$1 25
2 in.x3 " " " " "	"	1 50
2 in.x8 " " " " "	"	3 75
2½ in.x3 " " " " "	"	1 75
2½ in.x8 " " " " "	"	4 45
3 in.x4 " " " " "	"	3 00
3 in.x8 " " " " "	"	5 00
3½ in.x5 " " " " "	"	4 00
3½ in.x8 " " " " "	"	5 50
4 in.x6 " " " " "	"	5 00

MEAD'S ADHESIVE PLASTERS.—On Tin Spools.

3 inch strips, 10 yards long,	per spool (S. & J.'s)	$ 75
2½ " " 10 " "	" " "	65
2 " " 10 " "	" " "	55
1½ " " 10 " "	" " "	50
1 " " 10 " "	" " "	40
½ " " 10 " "	" " "	35
7 " " 1 " "	" yard "	35
12 " " 5 " "	" box "	1 25
Mead's Dressing Paper, 24 inches and 25 yards	per roll	75

ADHESIVE PLASTERS.

Rubber Adhesive plaster on cotton cloth, 7 in. wide	per yard	$ 55
Emp. " " " Swansdown, 17 in. wide	" "	65
" " " " Moleskin 17 in. wide	" "	75

SUNDRY NECESSITIES.

ADHESIVE PLASTERS.

		Net Prices.
Emp. Adhesive Plaster on Shirting	per yard	$ 25
Belladonna " " 7 inches wide	" "	60
Camphorated Blister Plaster, 7 inches wide	" "	60
Isinglass " on fine silk	" "	50
" " on strong muslin	" "	30

ADHESIVE BANDAGE.

Adhesive Bandages, 10 yards, ½ inch wide, in tin boxes	$ 30
" " 10 " 1 " " " " "	35
" " 10 " 2 " " " " "	50
" " 10 " 3 " " " " "	70

PROTECTIVES.

Oiled Muslin	per yard	$ 50
" Silk, 30 inches wide	" "	95
" " 28 " "	" "	70
Green " Protective Cloth	" "	1 50
Gutta Percha Tissue, best quality	" "	50
McIntosh Black Rubber Cloth	" "	60
" Pink " "	" "	1 50

JUTE.

Carbolized Jute in 1 lb. tin boxes	$ 30
Plain " per lb	20
Tarred " in 1 lb. tin boxes	35
Oakum, per lb	20
" " bale	7 00

TAPE MEASURES.

Linen, 60 inches	$ 50
" 10 yards	2 25
Steel	1 50

CHAMOIS SKINS.

Chamois Skin	per skin	$0 75

Operating Hoods (made of heavy canvas and padded)		2 50
Rubber Gloves	per pair	1 50

COMBS.

Tail Combs, horn, enameled handle	$0 60
" " Cherry, plain	40
" " Hard rubber, plain	20
" " " " with handle	40
Mane " " " " "	40
" " " "	20
" " Cherry, plain	40
" " Horn, enamel handle	60
Hair Shedders	each 50

SUNDRY NECESSITIES.

SOLUBLE HYPODERMIC TABLETS.

For Veterinary Use.

SOLUBLE. ACCURATE. PERMANENT.

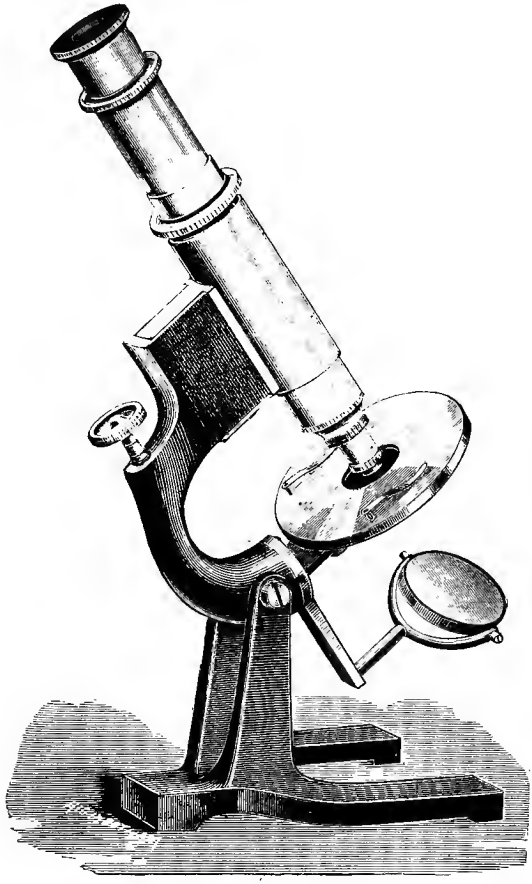
These tablets are readily soluble in water, forming a perfect solution. The division of material is effected with the greatest exactness, so that each tablet can be relied upon as containing the exact quantity of medicament stated on the label. The tablets will keep indefinitely in any climate, and a full line of them, including syringe, can be carried in the pocket. The materials of which they are composed are absolutely non-irritating in character. They are to be dissolved in a definite quantity of water, forming thus a solution of known strength, of which a part or the whole may be administered.

A list of our regular line of tablets will be found below:

		Per Tube.	Per doz. Tubes.
No. 500	Aconitine Cyrstals, 1-40 grain	$ 19	$ 2 25
" 501	" " 1-20 "	30	3 50
" 502	Atropine Sulphate ¼ "	25	3 00
" 503	" " ½ "	38	4 50
" 504	Cocaine Muriate 1 "	30	3 50
" 505	Colchicine ¼ "	25	3 00
" 506	" ½ "	38	4 50
" 507	Coniine hydrobromate 1 "	60	7 00
" 508	Digitalin ⅛ "	17	2 00
" 509	" ¼ "	21	2 50
" 510	Hyoscyamine ⅛ "	50	5 00
" 511	Morphine Muriate 1 "	35	4 00
" 512	" " 2 "	60	7 00
" 513	Morphine and Atropine, Morphine Sulph. 1½ grain, Atropine Sulph. ½ grain	75	8 50
" 514	Physostigmine salicylate ¼ grain	92	11 00
" 515	Pilocarpine hydrochlorate ½ "	60	7 00
" 516	Sodium Arsenite 1 "	13	1 50
" 518	Strychnine Sulphate ½ "	15	1 75
" 519	" " 1 "	21	2 50
" 520	Veratrine hydrochlorate ¼ "	15	1 75
" 521	" " ½ "	19	2 25

MICROSCOPES.

We handle a **full line** of Bausch & Lomb Microscopes, a few of which we show here. We believe the B. & L. to be the best microscope in use, but can furnish any make desired.



(CUT ONE-THIRD ACTUAL SIZE)

Fig. 1300.—No. 505-A —BAUSCH & LOMB'S STUDENT MICROSCOPE.

This Miscroscope is the result of an effort to reach the utmost efficiency and simplicity at an exceedingly low price. Everything pertaining to it is well made and finished, and we feel sure will fill a popular demand.

In order to make up a complete low-priced outfit, we have given special attention to the optical parts, and as a result have devised two "Special" objectives, 1 inch 15° and ¼ inch 65°, which, although low priced, may be relied upon as giving as good results as can be obtained with such angular aperture. They are perfectly achromatic, with penetration and good resolving power, the ¼ showing the lines on *P. Angulatum*, while it has very long working distance. Where price, however, is not the principal consideration, we would invariably recommend the selection of our higher grade objectives.

MICROSCOPES.

The stage has spring clips; on its lower surface is attached a revolving diaphragm, and it is also provided with a screw, to which a sub-stage may be attached. The mirror is concave and is attached to a bar, the axis of which lies in the plane of the stage, so that illumination may be brought on the object from any point below or above the stage. The mirror-bar is also provided with sliding adjustment for mirror, so that proper illumination of the object may be obtained.

In No. 505-A the coarse adjustment is by sliding tube in cloth-lined sleeve. No. 505-B has a well made and delicate rack and pinion for coarse adjustment. The fine adjustment in both instruments is by delicate micrometer screw acting on our patent fine adjustment. The main tube has cloth lining, and is provided with draw tube, by which means standard optical tube-length may be used.

	Net Prices.
Fig. 1300 No. 505-A, Stand with one eye-piece, in cherry case....	$16 00
" 1300 " 505-B, Stand as above with rack and pinion for coarse adjustment.....	23 00
Fig. 1300 No. 506-A, No. 505-A with 1 inch and ¼ inch "Special" objectives; magnifying power 80 to 375 diameters.....	30 00
Fig. 1300 No. 506-B, No. 505-B with 1 inch and ¼ inch "Special" objectives, magnifying power 80 to 375 diameters.....	37 00
Fig. 1300 No. 507-A, with No. 505-A with 1 inch (No. 604) and ¼ inch (No. 608 or 609) magnifying power, 80 to 375 diameters..	38 00
Fig. 1300 No. 507-B, No. 505-B with 1 inch (No. 604) and ¼ inch (No. 608 or 609) magnifying power, 80 to 375 diameters.....	43 00
Sub-stage ring, to receive any sub-stage accessories, extra.....	1 00
Sub-stage with revolving diaphragm, extra.....	2 00
Glass stage and slide carrier, extra.....	5 00

Fig. 1301. MODEL MICROSCOPE.

We have constructed this miscroscope in compliance with a generally expressed demand for a simple, low-priced and well-made instrument, which is adapted to every grade of work, and claim that in it we have a model which possesses, in an eminent degree, these qualities. It is of chaste design, its parts are all calculated to bear the strain of every day work, and on this account, and because of its simplicity, it may be used by inexperienced hands without detriment or injury to it.

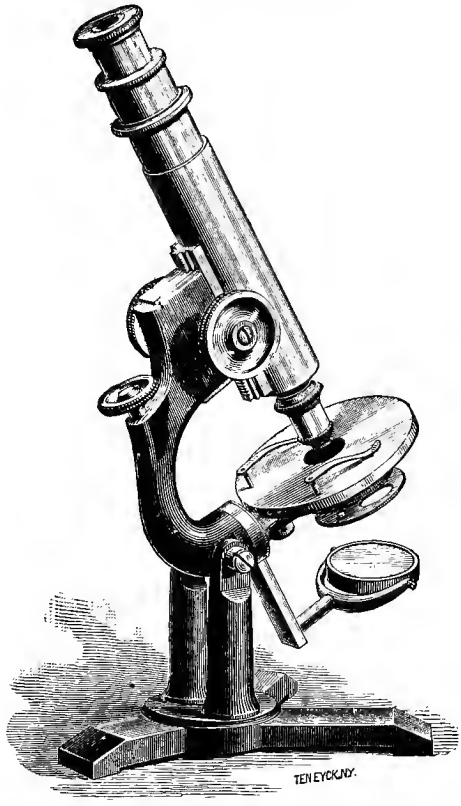
This microscope especially recommends itself by requiring a smaller pecuniary outlay than any of similar construction, and may be supplied with valuable additions, such as our revolving and glass stages, mirror bar with adjustable mirror and sub-stage, all of which greatly increase the efficiency, and add but little to the price of the instrument.

The tripod base, pillars and arm, are neatly japanned; the axis is arranged with strong bearings to allow inclination of the body to any angle. Coarse adjustment is by perfect rack and pinion, provided with tightening screws; fine adjustment by a delicate micrometer screw, acting on our patent movement.

The stage is of brass, circular in form, very thin to allow great obliquity, but of sufficient strength to be firm under manipulation, with detachable spring clips. Attached to its lower side is a sub-stage ring and revolving diaphragm, both of which may be removed.

The main tube has a draw tube, which is provided with the society screw to receive low power objectives, amplifier or analyzer of polariscope.

MICROSCOPES.



(CUT ONE-THIRD ACTUAL SIZE.)

Fig. 1301.—No. 520—BAUSCH & LOMB'S MODEL MICROSCOPE.

Plane and concave mirrors are adjustable on the mirror bar, which is a feature possessed by few low priced instruments, although it is of considerable importance, from the fact that a change in the distance of the light requires a corresponding adjustment of the mirrors. The mirror bar swings on a large bearing (the axis of which lies in the plane of the stage) to any obliquity below and above the stage, the latter for the illumination of opaque objects.

Fig. 1301 No. 520. Stand, with any of our Huyghenian eye-pieces, in upright polished case, with handle and lock, drawer for accessories, and receptacles for eye-pieces and objectives.....$25 00 net

Fig. 1301 No. 521. The above with two objectives, 1 inch (No. 604), and ¼ inch (No. 608 or 609), and camera lucida, pliers, slides and covers ..... 45 00 "

Revolving stage, with removable spring clips, extra..... 5 00 "

Improved glass stage with slide carrier, which slips over either plain or revolving stages, extra..... 5 00 "

Graduated mirror bar, with mirror and sub-stage (both adjustable) same as that used on Investigator, in place of that accompanying stand, extra..... 5 00 "

MICROSCOPES.

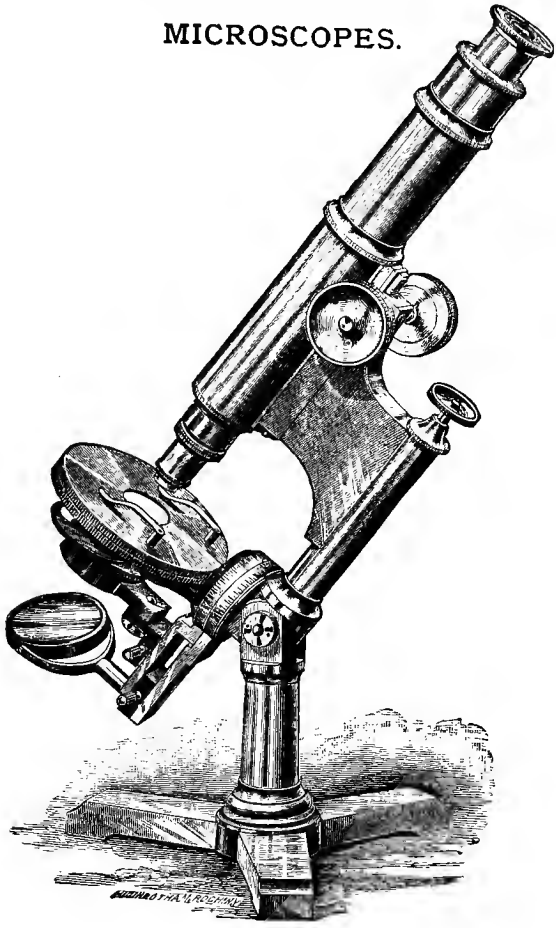
Fig. 1302. No. 545. UNIVERSAL MICROSCOPE.

In this instrument we have followed the general construction of the Investigator, as this has proved exceedingly popular. It is, however, larger and heavier, with a number of new features which are enumerated in the description. The various compensating bearings which obviate friction and retain smooth movements under the most severe usage, have also been applied to it. It was made in answer to a popular demand, is elegant in design, and of the best possible work and finish. It is, as its name implies, an instrument which is universal in its application to all microscopic work.

The base is of a tripod form, and made of brass; it has on its lower surface three soft rubber pads, and is sufficiently heavy to sustain the instrument firmly at any inclination of the body. The brass pillar is large and heavy, and connected by joint for inclination of the arm. The coarse adjustment is by rack and pinion and of sufficient range to admit of the use of the lowest power objectives; the fine adjustment is by micrometer screw acting on our patent frictionless motion. The main tube has two draw tubes, by which a considerable range in length may be attained; they may be contracted to less than the standard, to decrease the height of the instrument when used in an upright position, and may be extended beyond it to increase the magnifying power; both draw tubes have society screw, and the main tube has broad gauge screw and adapter for society screw. The stage has concentric revolving motion with removable spring clips, and its upper service lies in the same plane as center of mirror bar movement and joint for inclination; it is thin to allow the greatest obliquity, but firm under any manipulation.

The mirror and sub-stage bars move independent of one another or together, and while the mirror bar swings to allow the use of the mirror at any possible angle below or above the stage, the sub-stage bar revolves completely around it and may be placed between the stage and the arm, where various illuminating accessories may be used; in this position the sub-stage may also be entirely removed, which leaves the mirror alone in its relative position to the stage; the mirrors are of large size, and both these and the sub-stage are adjustable on their respective bars; the circular bearings of these are large, and are graduated to degrees and silvered. A steel pin for centering stage and sub-stage accompanies the instrument.

MICROSCOPES.



(CUT ONE-THIRD ACTUAL SIZE.)

Fig. 1302. No. 545. BAUSCH & LOMB UNIVERSAL MICROSCOPE.

Stand, with any of our Huyghenian eye-pieces, in polished case, with handle and lock, drawer for accessories and receptacles for eye-pieces and objectives, net $55 00.

Fig. 1302. No. 546.

The above with eye-pieces A (No. 700), and C (No. 702), the latter with slot for micrometer. Objectives ¾ inch (No. 605), and 1-5 (No. 610 or 611). Camera lucida, eye-pieces, micrometer, pliers, slides and covers. Magnifying powers, 35 to 600 diameters, net, $80 00.

The above with improved glass stage and slide carrier, which fastens to the brass stage extra, net $5 00.

The above with rack and pinion adjustment to the sub-stage, extra, net, $15 00.

The above with centering adjustments by micrometer screws to either stage or sub-stage, extra for each, net, $15 00.

MICROSCOPIC DISSECTING INSTRUMENTS.

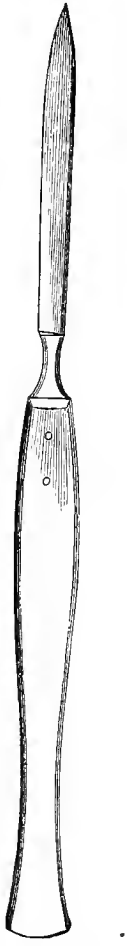


Fig. 1303.

Fig. 1304.

Fig. 1306.

Fig. 1307.

Fig. 1308.

Fig. 1305.

Fig. 1309.

MICROSCOPIC DISSECTING INSTRUMENTS.

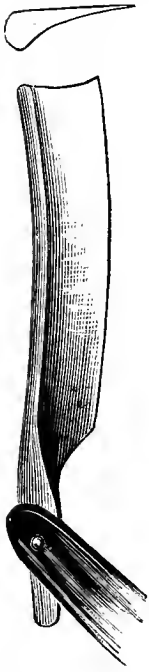


Fig. 1310.

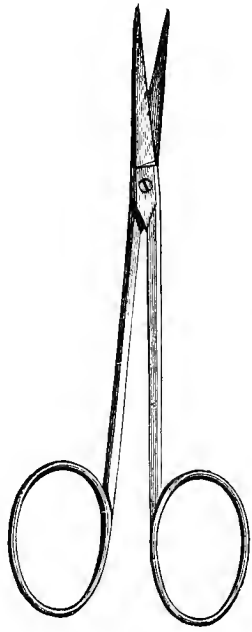


Fig. 1311.

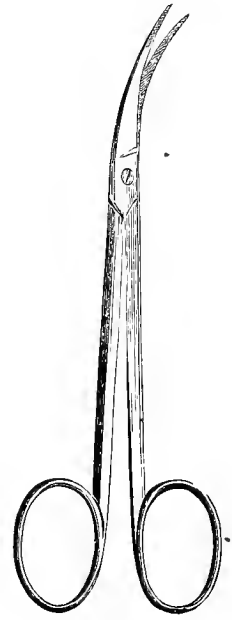


Fig. 1312.

Fig. 1313.

		Net Prices.
Fig. 1303	Sharp Pointed Microscopic Knife, ivory handle	$1 00
" 1304	Blunt " " " " "	1 00
" 1305	Microscopic Scalper, ivory handle	1 00
" 1306	" Needle Holder, ivory handle	1 00
" 1307	Valentine's Section Knife	6 00
" 1308	Section Knife, ebony handle, in Morocco case	3 25
" 1309	Brain Knife	1 50
" 1310	Microscopic Section Razors	$1 50 to 3 00
" 1311	Very Fine Microscopic Scissors, straight	1 10
" 1312	" " " " curved	1 10
" 1313	Nickel Plated Trowel or Lifter	75

SLIDES AND COVER GLASSES.

Glass Slides, ground edges, 3x1	per gross $1 75
" Covers No. 2 (circles), ¾ inch	per oz. 1 75
" " " " ½ "	" 1 75
" " No. 3 " ⅝ "	" 1 50
Boxes for holding 25 glass slides	each 10

HAND AND POCKET LENSES.

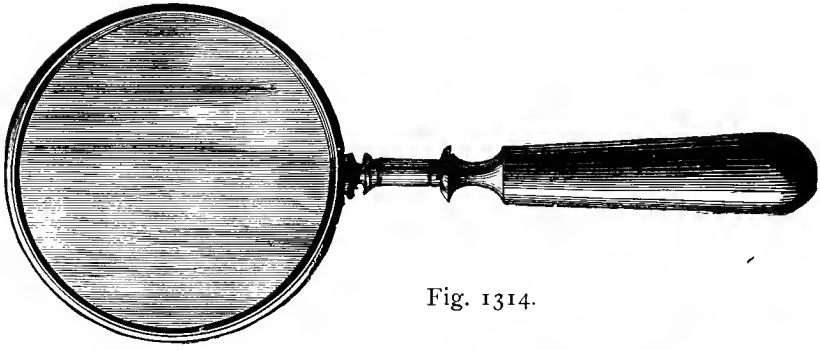


Fig. 1314.

Fig. 1315.

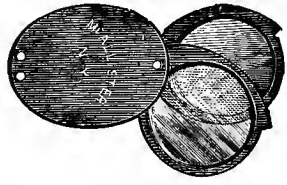


Fig. 1316.

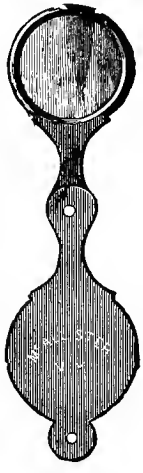


Fig. 1317.

Fig. 1318.

		Net Prices.
Fig. 1314	Hand Lens, metal rimmed	$ 75 to 1 75
" 1315	Single " H. R. folding	35 to 1 00
" 1316	Double " " "	75 to 1 50
" 1317	Single " " "	50 to 1 00
" 1318	Double " " "	60 to 1 25
	Coddington Lens, metal, folding	1 50 to 2 00

BATTERIES.—Discount 20 per cent.

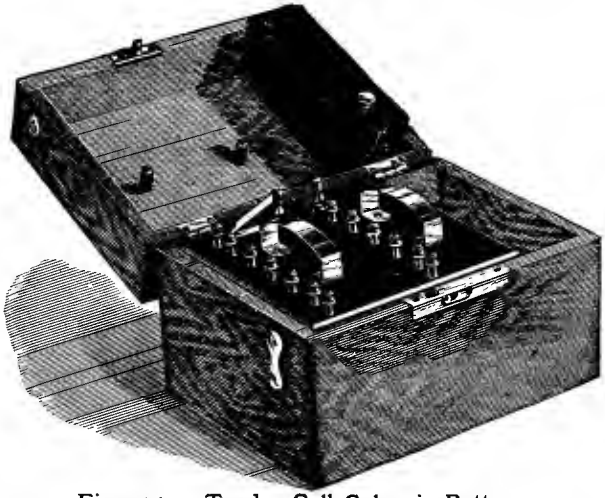


Fig. 1350. Twelve-Cell Galvanic Battery.

In a polished black-walnut case, 10½ inches long, 8¼ inches wide, 7¼ inches high, metal work all nickel-plated, lock and handle, sponge electrodes, cable conducting cords, and hard rubber electrode box. This is a very convenient visiting Battery, as it only weighs eleven pounds, and gives a galvanic current of sufficient intensity to treat any case where it is indicated. Price $30 00.

Fig. 1351. Eighteen-Cell Galvanic Battery.

In a polished black walnut case, 14¼ inches long, 8¼ inches wide, 7¼ inches high, with lock and handle, metal work all nickel plated, first class sponge electrodes, cable conducting cords and hard rubber electrode box. This is the most convenient size for a physician's use, as it gives a powerful current, and weighs but little over 15 pounds. Price $40 00.

BATTERIES.—Discount 20 Per Cent.

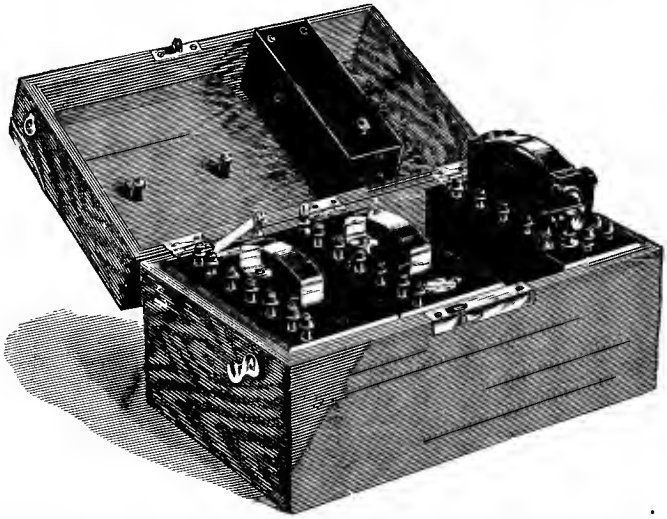


Fig. 1352. Twelve-Cell Combined Galvanic and Faradic Battery.

In polished black walnut case, 13½ inches long, 8¼ inches wide, 7¼ inches high, with first-class Faradic Coil, polished hard rubber ends and cover, extra large cell to run the coil, electrodes, our new cable conducting cords and hard rubber electrode box. This Battery gives a galvanic current same as above described, and a Faradic current of sufficient strength to treat any case. Price $40.00.

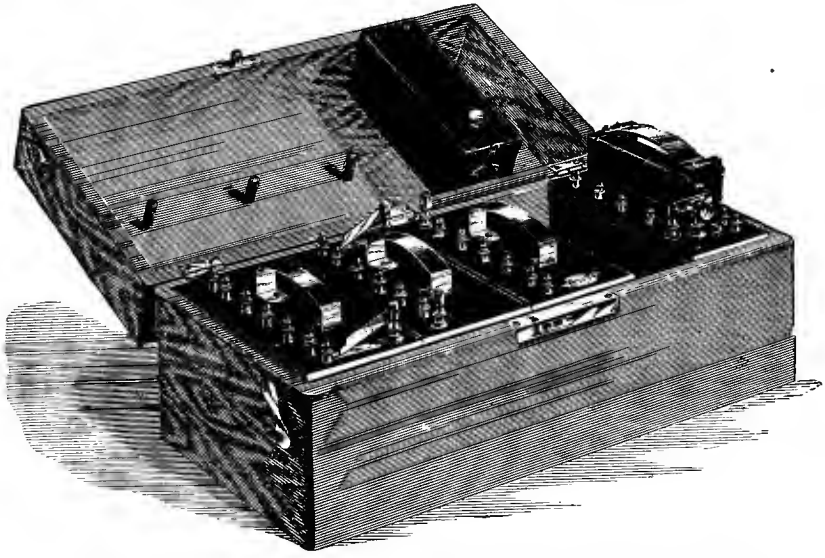


Fig. 1353. Eighteen-Cell Combined Galvanic and Faradic Battery.

Same style of case and finish as the above, 17 inches long, 8¼ inches wide, 7¼ inches high, with first-class Faradic Coil, polished hard rubber ends and cover, extra large cell to run the coil, sponge electrodes, cable conducting cords, and hard rubber electrode box. This is the most convenient Battery for a physician's use, as it gives a very intense galvanic current, and a Faradic current of sufficient strength to treat any case, and is perfectly portable. Price $52.50.

DESCRIPTION OF THE COMBINED GALVANIC AND FARADIC BATTERY.

Fig. 1354, No. 1, shows the hard rubber plate of a section (on the under surface of which is cemented a sheet of soft vulcanized rubber) and binding posts which project through the hard and soft rubber, and screw into the brass piece holding the zinc and carbon couples. The rubber plate on which the couples are clamped projects over one side enough to cover the cells when the zinc and carbon plates are placed in the drip cups. When the cells are not in use, and the lid of the Battery box is closed, it presses on the *spring handle* of the section (1354, No. 1) and holds the soft rubber firmly over the cells and drip-cup. By this arrangement the hydrostat is made water tight.

Fig. 1355, No. 2, shows a section of six cells and a drip-cup, made of one piece of hard vulcanized rubber. The drip-cup is to receive the zinc and carbon couples when not in use.

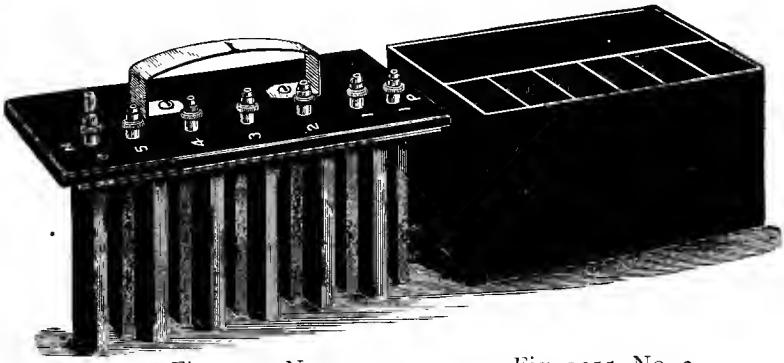


Fig. 1354 No. 1. Fig. 1355. No. 2.

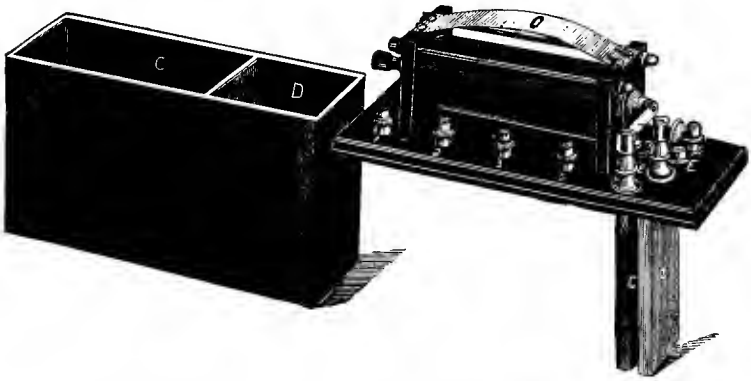


Fig. 1356. No. 3. Fig. 1357. No. 4.

DESCRIPTION OF THE COMBINED GALVANIC AND FARADIC BATTERY.

An extra cell of large size is added to the combined Battery for the purpose of running the Faradic Coil (Fig. 1356, No. 3). This renders the Battery more perfect than any yet offered to the profession. This extra cell gives sufficient power for the Faradic current, and the operator is not obliged to connect and exhaust the current from the galvanic cells. If greater strength is ever needed in an emergency than the extra cell gives, the galvanic cells can be connected with the coil. (See directions.) The Faradic Coil (Fig. 1357, No. 4) is securely fastened on a plate of polished hard rubber, which serves for a cover to the large cell and drip cup, and to hold the elements. Soft rubber is cemented on the under side of this plate, which is securely clamped over the cell and drip-cup when the lid of the Battery box is closed, by means of pressure on the spring fastened on the coil. Each Battery is furnished with a hard rubber Electrode box, which is placed in the cover of the Battery. This Combined Battery gives greater quantity and intensity than any ever offered to the profession. It weighs less, occupies less space, and is perfectly portable.

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CHICAGO VETERINARY COLLEGE,

2537 and 2539 State Street

CHICAGO.

Organized and Incorporated under the Laws of the State of Illinois, 1883.

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